



# भारत का राजपत्र

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No. 8] NEW DELHI, SATURDAY, FEBRUARY 23, 1985 (PHALGUNA 4, 1906)

इस भाग में भिन्न पृष्ठ संख्या ही जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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Calcutta, the 23rd February 1985

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#### APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135. of the Act.

The 16th January, 1985

29/Cal/85 Brichima Spa New process for the synthesis of  
O-Isopropoxyphenol.

The 17th January, 1985

30/Cal/85. Tara Chand Banika. Improvements in or relating to means for fitting and/or attaching Printed Circuit Board to chassis or Printed Circuit Board to Printed Circuit Board, the device being called "PCB" supports.

31/Cal/85. Tara Chand Banika. Improvements in or relating to means for mounting of power Transistor Packages TO3 & TO66, the device being called "Insulator Transistor Mounts."

32/Cal/85. Siemens Aktiengesellschaft. Apparatus for the manual assembly of circuit boards.

The 18th January, 1985

33/Cal/85. Hoechst Aktiengesellschaft. Process for the preparation of copper complex monoazo compounds. [Divisional date 1st July, 1982].

34/Cal/85. Hoechst Aktiengesellschaft. Process for the preparation of copper complex monoazo compounds. [Divisional date 1st July, 1982].

35/Cal/85. Vsegozny Nauchno-Issledovatel'sky I Proektny Institut Aluminievoi Magnievoi I Elektrodnoi Promyshlennosti. Method for producing alumina and kiln to implement said method.

The 19th January, 1985

36/Cal/85. Norton Company. Abrasive Grits or ceramic bodies and preparation thereof.

37/Cal/85. Tai-Her Yang Clamping Devices.

The 21st January, 1985

38/Cal/85. Sulzer-Ruti Machinery Works Ltd. Weaving Machine.

The 22nd January, 1985

39/Cal/85. Sunil Kumar Bose. Rustconverter.

40/Cal/85. Dr. Anil Krishna Kar. Method for improving the strength properties of soil for the purpose of supporting loads/constructions thereupon.

41/Cal/85—Alliance technique Industrielle. An optical fiber counter-distributer, and method of manufacture.

**APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH 61 WALLIAH ROAD.  
MADRAS-600 002**

The 7th January, 1985

14/Mas/85 V. A. Subramaniam. An improved scooter engine drive system.

15/Mas/85 Davy McKee (London) Limited. Process. (January 12, 1984; United Kingdom).

The 8th January, 1985

16/Mas/85. S. I. Jaffer. A plate rack.

17/Mas/85. A. H. Robins Company, Inc. Process for the preparation of 12-(amino-pyridinyl) amino phenyl arylmethanones. (Addition to Patent Application No. 1261/Cal/81).

The 9th January, 1985

18/Mas/85. Unilever Englebert Textiloord S.A. A method and device for producing an electrostatic field for electrostatically flocking a filamentary or yarn-like material and a flock filament produced according to such a method or a flock yarn produced according such a method.

19/Mas/85. Societe des Produits Nestle S.A. A process for the production of a starch dispersible in boiling water.

The 10th January, 1985

20/Mas/85. Maschinenfabrik Rieter AG. Method and apparatus for forming a lap.

The 11th January, 1985

21/Mas/85. K. R. Rajan. Automatic eyelet punch.

22/Mas/85. K. V. S. T. Raju. A power transmission device.

23/Mas/85. Portals Engineering Limited. Bookbinding machine February 3, 1984. United Kingdom.

24/Mas/85. Shell Internationale Research Maatschappij B. V. Process and apparatus for the preparation of synthesis gas.

**ALTERATION OF DATE**

155677.

(895/Cal/83). Ante dated to 29th February, 1980.

155691.

(678/Cal/82). Ante dated to 30th March, 1979.

155706.

(232/Cal/84). Ante dated to 23rd December, 1980.

155715.

(125/Del/81). Ante dated to 17th November, 1980.

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CLASS 128-E.

Int Cl A-61n 5/00.

**"THERAPEUTIC APPARATUS".**

Applicant & Inventor : GORDON NOEL PRANGLEY, OF 4 CHURCH STREET, ABBEY GREEN, BATH, AVON, ENGLAND.

Application No. 1320/Cal '82 filed November 11, 1982.

Convention date November 11, 1981 (34029/81).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 claims

Therapeutic apparatus for producing therapeutic radiation comprising: a shield comprising a plate penetrated by a multiplicity of apertures, and a multiplicity of jewels located in respective said apertures; and

a source of thermal and/or optical radiation located rearwardly of the shield so that radiation from the source is transmissible through the shield via at least some of the jewels.

Compl. specn. 15 pages. Dres. 3 sheets.

CLASS 32E. & 40-B. 155662.  
Int. Cl. C12k 1/00.

"PROCESS FOR PRODUCING CELL CATALYSTS FOR BIO-TRANSFORMATION".

Applicant : CESKOSLOVENSKA AKADMIE VED, NO. 3 NARODNI, PRAHA 1, CZECHOSLOVAKIA.

Inventors : VLADIMIR VOJTESEK, 2. VLADIMIR JIRKU, 3. VLADIMIR KRUMPIANZIL, 4. PAREL CULIK.

Application No. 31/Cal/83 filed January 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 claims

A process for producing cell catalysts for hiotrasformations consisting of whole, intact, enzymically active, native, or previously permeabilized cells or their subcellular particles and/or of a mixture of whole intact cells with their fragments, subcellular particles and whole released content of cells and/or of whole, individually cross-linked, and permeabilized cells, immobilized chemically by a water-soluble reactive polymer originating by reaction of a water soluble compound containing at least two primary and/or secondary amino groups, for instance polyethyleneimine, hexamethylene-diamine, lysine and polylysine, with bifunctional aldehydes of dicarboxylic acids, for instance alutaraldehyde, or, occasionally, further permeabilized and/or mechanically hardened characterized by the fact that whole, intact, enzymically active, native, or, occasionally, previously permeabilized cells or their fragments and subcellular particles and/or mixtures of whole native cells with their fragments, subcellular particles and whole released content of cells and/or whole, individually cross-linked and permeabilized cells are immobilized by contacting with a water-soluble, chemically reactive polymer originating by reaction of a water-soluble compound containing at least two primary and/or secondary amino groups, to advantage poly-ethylenimine, with bifunctional aldehydes of dicarboxylic acids, to advantage alutaraldehyde, at 0—60°C in an aqueous medium and at pH 4.0—12.0, and that the reaction of the above mentioned cell material with the above mentioned polymer proceeds at —30 to 50°C, in an aqueous medium at pH ranging from 5.0 to 9.0, occasionally in the presence of flocculants and that after separation from the reaction mixture the aggregates are washed with water or buffer, and, occasionally, permeabilized and/or mechanically hardened.

Compl. specn. 36 pages. Drgs. nil.

CLASS : 55-E; 60-X<sub>2</sub> b. 155663.  
Int. Cl. C 12 k 5/00.

A METHOD OF PREPARING BIVALENT ANTI APHTHEOUS AND ANTI-COLIBACILLARY VACCINE FOR BOVINES AND PORCINES.

Applicant : INSTITUT MERIEUX (SOCIETE ANONYME), OF 17 RUE BOURGELAT, 69 223 LYON, FRANCE.

Inventors : 1. PHILLIPPE DESMETTRE, 2. HUBERT FAVRE.

Application No. 54/Cal/83 filed January 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A method for preparing a bi-valent, anti-aphteous and anti-colibacillary vaccine which comprises mixing, preferably in a same phase, anti-aphteous vaccinating antigens in the form of viral particles or virions or of the aphteous protein V. P. threonin, and antigen of fixation K 99 (or K 88 in the case of vaccines to be used with porcines), where the antigens are mixed in the following proportions 10<sup>7</sup> to 10<sup>8</sup> DECP

50 of aphteous virions for an equivalent of 20 to 40 billion bacteria, or 100 to 300 ug of V. P. threonin for 0.3 to 2 mg of antigen K 99 (or K 88).

Compl. specn. 12 pages. Drg. nil.

CLASS : 205H.  
Int. Class : B60c 5/00.

"PROCESS FOR MANUFACTURING RADIAL TYRES AND RADIAL TYRES PRODUCED BY THE PROCESS".

Applicant : SOCIETA' PNEUMATICI PIRELLI S.p.A., AN ITALIAN COMPANY OF PIAZZALE CADORNA 5, MILAN, ITALY.

Inventor : RENATO CARETTA.

Application for Patent No. 126/Del/81 filtd on 6th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 claims

A process for manufacturing radial tyres, comprising a radial carcass, a tread, an annular reinforcing structure inserted between the carcass and the tread, the said annular reinforcing structure comprising at least two layers of metallic cords, and in a radially outermost position, a third layer of textile material cords that shrink in length under the effects of heat, said metallic cords of each layer being disposed parallel to each other and crossing the cords of the adjacent layer, and forming an angle with the circumferential direction of the tyre, said cords in textile material being disposed parallel to each other and forming with the circumferential direction of the tyre an angle different from zero and less than the angle formed by the metallic cords of the underlying metallic layer, wherein said process comprises the phases of :

- constructing the radial carcass;
- shaping said carcass in its unvulcanised state to a toric configuration;
- building-up the annular reinforcing structure by winding in form of a cylindrical sleeve a first metallic layer and butt-jointing the ends of said first layer and then by winding over said first layer a further reinforcing element, comprised by a second metallic layer and by a third textile layer, already together preassembled apart, and by butt-jointing the ends of both said second and third layers along the same line, extending in the direction of the metallic cords of said second layer;
- applying on the crown of said torically shaped radial carcass said annular reinforcing structure;
- applying on said annular reinforcing structure the tread band;
- moulding and vulcanising the tyre.

Compl. specn. 16 pages. Drgs. 3 sheets.

CLASS : 128G. 155665.  
Int. Class : A 61b5/00.

"METHOD FOR THE MANUFACTURE OF AN IMPROVED TEST DEVICE FOR THE PURPOSE OF DETECTING PREGNANCY".

Applicant : GURSARAN PARSHAD TALWAR, AN INDIAN CITIZEN, OF CI/8, ANSARI NAGAR, NEW DELHI, INDIA.

Inventor : GURSARAN PARSHAD TALWAR.

Application for Patent No. 157/Del/81 filed on 20th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 claims

A method for the manufacture of an improved test device for application to biological fluids for the purpose of detecting pregnancy, which comprises soaking a support of filter paper in a sodium carbonate solution, adding thereafter to said solution an activating agent of the kind such as herein described in order to activate said filter paper support, removing the activated support from said solution and contacting it with a monoclonal antibody of high titre of the kind such as herein described whereby said antibody reacts with said activated filter paper support to provide the improved test device.

Compl. specn. 8 pages.

CLASS : 35B, C.

155666.

Int. Class C04b 7/56.

**A PROCESS FOR PRODUCING A CEMENT PRODUCT.**

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, FORMERLY KNOWN AS IMPERIAL CHEMICAL INDUSTRIES LIMITED, A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE, MILBANK, LONDON SW1-P 3-JF, ENGLAND.

Inventors : JAMES DEREK BIRCHALL, KEVIN KENDALL, ANTHONY JAMES HOWARD.

Application for Patent No. 172/Del/81 filed on 27th March, 1981.

Convention application date 11th April, 1980/8012101/ (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 13 claims

A process for producing a cement product which process comprises forming a homogeneous mixture of

- (a) at least one hydraulic cement,
- (b) water,
- (c) at least one polymeric water-soluble or water-dispersible additive which is capable of adding in the process of the composition, in a proportion of 0.5 to 10% by weight of the hydraulic cement, and
- (d) at least one particulate material such as herein described insoluble in the composition and having an ultimate particle size of less than 0.1 micron, in a proportion of 0.5 to 10% by weight of the hydraulic cement, and setting the composition to produce the cement product.

Compl. specn. 18 pages.

CLASS : 32F3a

155667

Int. Class : C07d 7/24.

**"PROCESS FOR THE PREPARATION OF 1-3, 4 TRANS-2, 2-DIMETHYL-3-PHENYL-4-p-(B-PYRROLIDIONE THOXY)-PHENYL-7-METHOXYCHROMAN DERIVATIVES."**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

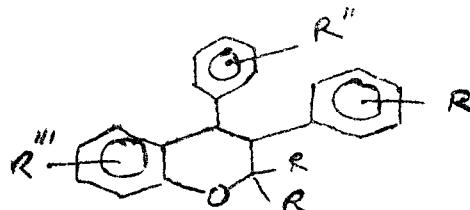
Inventors : MOHAMMED SALMAN, SUPRABHAT RAY, VED PRAKASH KAMBOJ AND NITYA ANAND.

Application for Patent No. 175/Del/81 filed on 30th March, 1981.

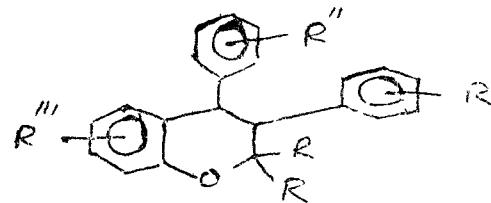
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 claims

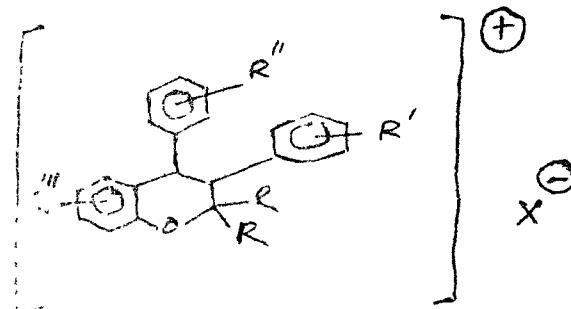
A process for the preparation of 1-3, 4-trans-2, 2-dimethyl-3-phenyl-4-p-(B-pyrrolidinoethoxy)-phenyl-7-methoxychroman of general formula I



wherein R is lower alkyl, R', R'' and R''' are hydroxy chloro fluoro, trifluoromethyl, lower alkyl, lower alkoxy or tertiary amino lower alkoxy groups and its acid addition salts which comprises reacting dl-3-4-trans-2, 2-dimethyl-3-phenyl-4-p-(B-pyrrolidinoethoxy) phenyl-7-methoxy chroman of the general formula II



wherein R, R', R'' and R''' having the meaning given above, with an optically active l-acid in a protic solvent to produce an 1-3, 4-trans-2, 2-dimethyl, 3-phenyl-4-p-(B-pyrrolidinoethoxy) Phenyl-7-methoxy chroman acid salt of the general formula III



wherein R, R', R'' and R''' having the meaning given above and X is an optically active anion and subjecting the said salt to alkaline hydrolysis to obtain the desired compound and if desired converting it by known methods to the acid addition salts.

Compl. specn. 8 pages. Drgs. 2 sheets.

CLASS : 128G.

155668.

Int. Class : A01n 1/02.

**"PROCESS FOR TREATING ORGANS AND PARTS OF ORGANS OF FISH, BIRDS AND MAMMALS TO MAKE SAME SUITABLE FOR USE AS TRANSPLANTS"**

Applicant : SOLCO BASEL AG, GELFERTSTRASSE 18, CH-4052 BASEL, SWITZERLAND, A SWISS COMPANY.

Inventors : WOLFGANG FRAEFEL, HEINZ FELIX LICHTI AND MASSIMO BRUNETTI.

Application for Patent No. 179/Del/81 filed on 30th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 claims

A process for treating organs and parts of organs of fish, birds and mammals to make same suitable for use as transplants, characterized in that the said organs or parts of organs are subjected to crosslinking of the macromolecules of the

intercellular matrix by the formation of amide bonds and of ester bonds, said bonds being formed in known manner between the carboxyl groups of dicarboxylic acids, tricarboxylic acids or polycarboxylic acids of the aliphatic, cycloaliphatic, aromatic or heterocyclic series and the amino groups, the hydroxyl groups respectively, of the peptide chains of the intercellular matrix.

Compl. specn. 21 pages.

CLASS : 136-C. 155669.  
Int. Cl. B 29 c 3/00.

APPARATUS FOR MAKING A MULTI-LAYER INJECTION MOLDED ARTICLE SUCH AS CONTAINERS.

Applicant : AMERICAN CAN COMPANY OF AMERICAN LANE, GREENWICH, CONNECTICUT 06830, U.S.A.

Inventors : 1. ROBERT J McHENRY, 2. ROBERT SEE BOHM, 3. MARTIN A RYAN.

Application No. 278/Cal/81 filed March 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 claims

Apparatus for making a multi-layer injection molded article such as containers comprising :

- (i) means for creating the flow of a first polymer stream to become one surface layer of the article;
- (ii) means for creating the flow of a second polymer stream to become the other surface layer of the article;
- (ii) means for creating the flow of a third polymer stream between the first and the second polymer streams;
- (iv) means for independently controlling the rates of flow of the polymer streams; and,
- (v) means to control the independent means to coordinate the termination of flow of the three polymer streams.

Compl. specn 25 pages. Drgs. 6

CLASS : 31-C. 155670.  
Int. Cl. H 01 1 9/00.

A METHOD OF MAKING P-DOPED SILICON FILMS.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MI 48084, U.S.A.

Inventors : 1. STANFORD ROBERT OVSHINSKY, 2. VINCENT-DAVID CANNELLA, 3. MASATSUGU IZU.

Application No. 521/Cal/81 filed May 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 claims

A method of making a p-doped silicon film, said method comprising the step of depositing on a substrate a material having at least silicon by glow discharge of a compound containing at least silicon in a partial vacuum atmosphere and during glow discharge deposition of the material, introducing an evaporated metal p-dopant element or a p-dopant gaseous compound into the silicon deposition glow discharge region which p-dopant metal element is deposited with the glow discharge deposited silicon material to produce a p-doped silicon film.

Compl. specn. 49 pages. Drgs. 2 sheets.

CLASS : 32-F<sub>1</sub> (c). 155671.  
Int. Cl. C 07 c 31/02.

PROCESS FOR THE PRODUCTION OF A FUEL GRADE MIXTURE OF METHANOL AND HIGHER ALCOHOLS.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. RAFFAELE DI PIETRO, 2. ALBERTO PAGGINI.

Application No 519/Cal/81 filed May 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 claims

A process for producing a fuel grade mixture of methanol and higher alcohols, which process comprises subjecting a gaseous mixture comprising carbon monoxide and hydrogen to a synthesis reaction to form a reaction product comprising methanol, higher alcohols, water and untreated gaseous mixture; subjecting the reaction product to a conversion reaction to form a reaction product comprising methanol, higher alcohols, unreacted gaseous mixtures, carbon dioxide and water; cooling the latter reaction mixture to form a liquid phase comprising methanol and higher alcohols and a gaseous phase comprising carbon monoxide, hydrogen and carbon dioxide; separating the liquid and gaseous phases; subjecting the gaseous phase to absorption for the removal of carbon dioxide therefrom and recycling part of the purified gaseous phase thus obtained; and subjecting the liquid phase to stripping for the removal of dissolved gas therefrom, the stripping agent used being part of the said purified gaseous phase, and the purified liquid phase thus obtained being used as an absorbing liquid in the foregoing removal of carbon dioxide from the gaseous phase

Compl. specn. 16 pages. Drgs. 1 sheet.

CLASS : 40-C & F.

155672

Int. Cl : E 21 b 43/22.

STABLE SUSPENSIONS OF WATER-SOLUBLE POLYMERS/ FOR USE IN AN ENHANCED OIL RECOVERY AND THEIR MANUFACTURE.

Applicant : INSTITUT FRANCAIS DU PETROLE, OF 4, AVENUE DE BOIS PREAU 92506 RUE JEIL MALMAISON, FRANCE.

Inventors : 1. FRANCOIS DAWAN, 2. DANIEL BINET, 3. NORBERT KOHLER, 4. QUANG DANG VU.

Application No. 790/Cal/81 filed July 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Clms

A stable suspension of a water-soluble polymer, for use in an enhanced oil recovery, comprising solid particles of hydrocarbon medium, non-solvent (a) suspended in a liquid polymer, and comprising at least one of the water-soluble polyhydrocarbon, said stable suspension comprising, for 100 parts b.w. of said liquid hydrocarbon medium, from 40 to 150 parts b.w. of said polymer (a), the size of the solid particles ranging between 10 microns and 1 mm, from 0.1 to 5 parts of b.w. of at least one thickening agent (b) selected having from 6 to 33 carbon atoms, and optionally from 0.1 to 5 parts b.w. of at least one non-ionic or anionic surfactant (c).

Compl. specn 14 pages.

Drugs. Nil

CLASS : 32-F<sub>1</sub> (b).

155673

Int. Cl. C 07 d 33/00.

PROCESS FOR THE PRODUCTION OF QUINOLINES, NAPHTHYRIDINES AND OTHER NITROGEN-BIHEXOCYCCLICS.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF POSTFACH 1209, 5210 TROISDORF, WEST GERMANY.

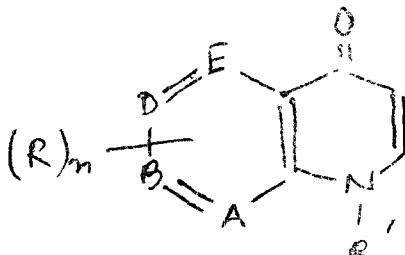
Inventor : 1. DR. KLAUS-DIETER STEFFEN.

Application No. 842/Cal/81 filed July 27, 1981.

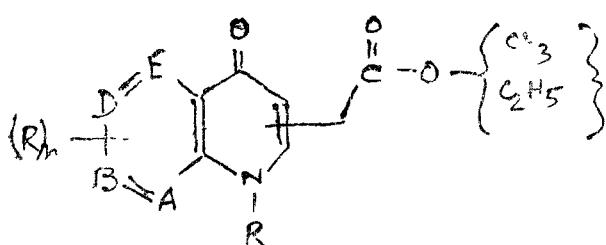
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A process for the production of quinolines, naphthyridines and other nitrogen-biheterocyclics of the general formula (I) shown in the accompanying drawings,



in which R=H, halogen, nitro-, amino-, keto-, alkyl-, alkylen-, aryl- (optionally substituted aryl-) groups or can be aryl- or alkyl- substituents bound in linear or cyclic arrangement through N, O, S or SO. R<sup>1</sup> represents H, aryl, alkyl, alkylen-, or halogenoalkylene substituents, the letters A, B, D, E can be carbon or up to 3 nitrogen atoms, the remainder carbon atoms, and can include a whole number of O to 4, which is characterised in that the corresponding carbethoxy- or carbomethoxy- compounds of the general formula (II) shown in the drawings



in suspension from the cyclisation reaction in which they have been produced are first saponified with water in the presence of acid catalysts under pressure without undergoing intermediate isolation then decarboxylated to (I) and optionally then isolated or subjected directly to further reaction.

Compl. specn. 18 pages.

Drgs. 1 sheet.

CLASS : 32-F<sub>1</sub>.

155674

Int. Cl. : C 07 d 31/40.

A PROCESS FOR THE PRODUCTION OF 2-AMINO-3-CARBETHOXYS-AMINO-6-(P-FLUORO-BENZYLAMINO)-PYRIDINE-MALEATE AND MEDICINAL COMPOSITION INCLUDING SAME.

Applicant : DEGUSSA AKTIENGESELLSCHAFT, WEISFRAUEN STRASSE 9, 6000 FRANKFURT/MAIN, WEST GERMANY.

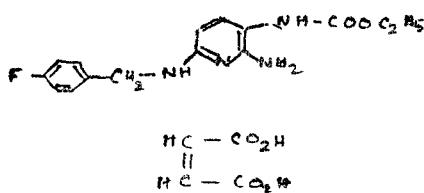
Inventors : 1. WR. WALTER VON BEBENBURG, 2. SIEGFRIED PAULUHN.

Application No. 1018/Cal/81 filed September, 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A process for the production of 2-amino-3-carbethoxy-amino-6-(P-fluoro-benzylamino)-pyridine-maleate of the formula shown in figure 7 of the accompanying drawings



comprising reacting 1 mole of 2-amino-3-carbethoxy-amino-6-(P-fluoro-benzylamino)-pyridine in a conventional solvent

with 1.1 to 1.5 moles of maleic acid between 20°C and the boiling point of the solvent.

Compl. specn 32 pages.  
CLASS : 136-C.

Drgs. 17 sheets.  
155675

Int. Cl. : B 29 f 3/04.

METHOD FOR REDUCING MELT FRACTURE DURING EXTRUSION OF A MOLten NARROW MOLECULAR WEIGHT DISTRIBUTION LINEAR, ETHYLENE COPOLYMER.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : STUART JACOB KURTZ.

Application No. 1092/Cal/81 filed September 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A process for extrusion wherein the extrudate compresses at least one layer, of a molten narrow molecular weight distribution, linear, ethylene polymer with reduced melt fracture, under conditions of flow rate and melt temperature which would otherwise produce higher levels of melt fracture which comprises extruding said polymer through a die having a discharge outlet defining an exit die gap formed by opposing die lip surfaces and wherein one surface of the die lip and/or die land in contact with the molten polymer extends beyond the opposing surface of the die lip and/or die land in the direction of the axis of flow of the molten polymer through the die exit whereby melt fracture is reduced on the surface of the polymer leaving the extended die lip surface.

Compl. specn. 25 pages.  
CLASS : 55-D<sub>4</sub>.

Drgs. 2 sheets.  
155676

Int. Cl. : A 01 n 9/00.

PROCESS FOR PREPARING A SYNERGISTIC HERBICIDAL EMULSION COMPOSITION.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

Inventor : ERHARD JOHN PRILL.

Application No. 1135/Cal/81 filed October 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A process for preparing a synergistic herbicidal emulsion composition which process comprises the steps of :

(1) mixing with agitation from 0.75 to 5.0 percent by weight of a polyalkylene glycol ether emulsifier which is molten form with from 10.0 to 69.25 per cent by weight of a water carrier, said water carrier being maintained at from 15°C to room temperature wherein said agitation is maintained until said emulsifier is dissolved;

(2) adding, with agitation, to the mixture of Step 1 from 30.0 to 70.0% by weight of 2-chloro-2', 6'-diethyl-N-(butoxymethyl) acetanilide herbicide wherein said agitation is continued until said herbicide is dispersed throughout the mixture of Step 1 and an emulsion is formed; and

(3) homogenizing said emulsion and optionally incorporating upto 15.0% by weight of one or more formulation adjuvants such as herein described.

Compl. Specn. 13 pages.

Drgs. Nil.

CLASS : 173-B.

155677

Int. Cl. : B 65 d 83/14.

GASKETED MOUNTING CUPS FOR AEROSOL DISPENSING CONTAINERS.

Applicant & Inventor : ROBERT HENRY ABPLANALP, OF 10 HEWETT AVENUE, BRONXVILLE, WESTCHESTER COUNTY, NEW YORK, UNITED STATES OF AMERICA.

Application No. 895/Cal/83 filed July 18, 1983.

Division of application No. 241/Cal/80 dated 29th February, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A gasket mounting cup for aerosol dispensing containers, said cup capable of being mass-produced and having a circular panel, an annular skirt portion depending from the panel, said skirt portion terminating in an annular channel portion designed to seat on a container head and a substantially uniformly thick band of gasket material friction-fitted to at least a portion of the skirt and channel portion of the mounting cup.

Compl. Specn. 16 pages.

Drgs. 10 sheets.

CLASS : 56-E.

155678

Int. Cl. : B 01 d 3/40.

#### PROCESS FOR EXTRACTIVE DISTILLATION.

Applicant : NIPPON ZFON CO., LTD., OF 6-1, 2-CHOME, MARUNOUCHI, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. HIROSHI HOKARI, 2. SHINZO HAYAMA.

Application No. 1359/Cal/80 filed December 9, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

In an extractive distillation process which comprises extracting and recovering relatively easily soluble hydrocarbons containing conjugated diolefin hydrocarbons from a hydrocarbon mixture by an extractive distillation apparatus consisting of an extractive distillation column and a stripping column using an N-alkyl-substituted lower fatty acid amide (such as, for example, of the type described) as an extractive solvent, the improvement which comprises providing 2 to 5 chimney trays at the bottom portion of the extractive distillation column and 1 to 4 heat exchangers at each chimney tray, feeding heat energy by a hot lean solvent recovered from the bottom of the stripping column and/or stream to a solvent solution containing the relatively easily soluble hydrocarbons on each chimney tray according to the temperature of the solvent solution and thus concentrating the relatively easily soluble hydrocarbons on each chimney tray, thereby substantially increasing the number of theoretical plates and reducing the amount of the recycle liquid by an amount corresponding to the increase of the number of theoretical plates.

Compl. specn. 16 pages.

Drgs. 2 sheets.

CLASS : 14-C & 98-I.

155679

Int. Cl. : F 24 j 3/00; H 01 v 1/00.

#### METHOD OF MAKING GRIDDED SOLAR CELL STRUCTURES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : WILLIAM JOSEPH BITER.

Application No. 767/Cal/81 filed July 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

A method of making a gridded solar cell structure, comprising the steps of :

forming a thin film cell, comprising a top layer of cuprous sulfide formed on a base of cadmium sulfide, and having an applied metallic grid on the surface of the cuprous sulfide;

backing the gridded cell to form a CdS : Cu electrically insulating, resistive region within the cadmium sulfide base;

characterized by removing the cuprous sulfide layer not covered by the metallic grid;

removing the CdS : Cu region not covered by the metallic grid, to provide bare cadmium sulfide areas; and

forming a layer of cuprous sulfide on all areas not covered by the metallic grid.

Compl. Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 32-F<sub>1</sub>; 55-E<sub>4</sub>.

155680

Int. Cl. : C 07 d 87/22.

#### A PROCESS FOR REPAIRING A 9-HALO-7-OXO-2, 3-DIHYDRO-7H-PYRIDO [1, 2, 3 DE] [1, 4] BENZOXAZINE-6-CARBOXYLIC ACID COMPOUND.

Applicant : DAIICHI SEIYAKU CO., LTD., OF NO. 14-10, NIHONBASHI 3- CHOME, CHUO-KU, TOKYO, JAPAN.

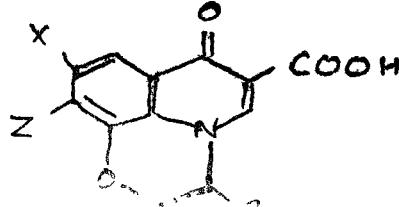
Inventors : 1. ISAO HAYAKAWA, 2. TOKIYUKI HIRAMITSU, 3. YOSHIKAI TANAKA.

Application No. 985/Cal/81 filed September 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

A process for preparing a 9-halo-7-oxo-2, 3-dihydro-7H-pyrido [1, 2, 3-de] [1, 4] benzoxazine-6-carboxylic acid compound having the formula (1) of the accompanying drawings



wherein R represents a hydrogen atom or an alkyl group having 1 to 6 carbon atoms X represents a halogen atom, and Z represents (1) a monoalkylamino, a di-alkylamino or a 1-alkyl-hydrazino group having 1 to 6 carbon atoms in each alkyl moiety which may be substituted with a hydroxyl group or an amino group, or (2) a 4- to 7-members cyclic-amino group which may contain additional hetero atom(s) of N, S and O and may be substituted with a hydroxy group, an alkyl group having 1 to 6 carbon atoms or a mono- or di-alkylamino group having 1 to 6 carbon atoms in each alkyl moiety, which comprises reacting a 9, 10-dihalo-7-oxo-2, 3-dihydro-7H-pyrido [1, 2, 3-de] [1, 4] benzoxazine-6-carboxylic acid or its 3-alkyl derivative with an amine of the formula ZH wherein Z is as defined above at a molar ratio of 1.0 or more moles of the amine per mol of the above compound in the presence or absence of an acid acceptor such as triethylamine, dimethylaniline or potassium carbonate in an organic polar solvent such as dimethylsulfoxide, sulfolane, dimethylformamide or dimethylacetamide or water at a temperature of 30 to 200°C.

Compl. Specn. 31 pages.

Drgs. 2 sheets.

CLASS : 32-E.

155681

Int. Cl. : C 08g 31/00.

#### PROCESS OF PRODUCING A WATER CURABLE SILANE-MODIFIED ALKYLENE-ALKYL ACRYLATE COPOLYMER.

Applicant : UNION CARBIDE CORPORATION, OF 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

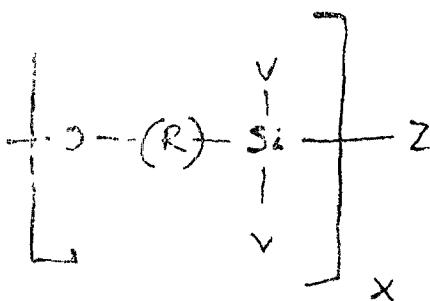
Inventors : MICHAEL JOHN KEOGH.

Application No. 1091/Cal/81 filed September 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

21 Claims

Process of producing a water-curable, silane modified alkylene-alkyl acrylate copolymer which comprises reacting at 80°C to 300°C. a mixture containing an alkylene-alkyl acrylate copolymer, a polysiloxane having the repeating unit



wherein R is a hydrocarbon radical, or oxy substituted hydrocarbon radical each V is hydrogen, a hydrocarbon radical or a hydrolyzable group and Z is a hydrolyzable group. n is an integer having a value of 1 to 18 inclusive, x is an integer having a value of at least 2 and an organic tatanate and optionally a silanol condensation catalyst.

Comp. Specn. 24 pages.

Drgs. 1 sheet.

CLASS : 77B.

155682

Int. Cl. : A 23d 5/00 + C11b 1/04, 1/10.

**EXTRACTION OF OIL FROM VEGETABLE MATERIALS.**

Applicant : CPC INTERNATIONAL INC. AT INTERNATIONAL PLAZA, INGLEWOOD CLIFFS, NEW JERSEY 07632, U.S.A.

Inventors : ROBERT A REINERS.

Application No. 1152/Cal/81 filed October 19, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A process for the extraction of oil from vegetable material such as hereinbefore defined comprising the steps of (a) dispersing in an oil solvent the finely divided undried vegetable material having at least 40% by wt. water content to give a solid-solvent dispersion; (b) extracting (in any known manner such as described hereinbefore) oil from the solid-solvent dispersion with additional oil solvent; (c) separating (in any known manner such as described hereinbefore) the oil solvent with oil from insoluble material; and (d) recovering (in any known manner such as described hereinbefore) oil from the oil solvent with oil

Compl. Specn Pages 21.

Drgs. Nil.

CLASS : 40B.

155683

Int. Cl. : B01j 11/00.

**IMPROVEMENTS IN THE PROCESS FOR THE PREPARATION OF CATALYSTS BASED ON IRON AND MOLYBDENUM OXIDES.**

Applicant : FLUTECO IMPIANTI S.p.A. OF VIA GALIANI 11, MILAN, ITALY.

Inventors : 1. ROBERTO GANAVESI; 2. GIANCARLO AGLIETTI, 3. ROBERTO GEIEZZI.

Application No. 1362/Cal/81 filed December 1, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Process for the preparation of catalysts based on iron and molybdenum oxides, which are active in the oxidation of

methanol to formaldehyde, characterised in that an aqueous solution of a soluble ferric salt is brought into contact with an aqueous solution of sodium molybdate having a pH value within the range 5.0 to 5.5 and a molybdenum content of 32 to 33 g/litre; the molar ratio of the molar radio of the molybdenum, as  $MoO_3$  to iron, as  $Fe_2O_3$ , being greater than 2 : 1; the precipitate obtained is then washed with de-ionized water until the sodium content of the participate is equal or less than 150 ppm, the washed precipitate is then treated by known methods to obtain the final active catalyst.

Compl. Specn. 18 pages.

Drgs. Nil.

CLASS : 39-M.

155684

Int. Cl. C 05b 7/00; C 01b 25/30.

**AN IMPROVED PROCESS FOR PREPARING GLASSY SODIUM METAPHOSPHATE.**

Applicant : PROJECTS & DEVELOPMENT INDIA LIMITED FORMERLY KNOWN AS THE FERTILIZER (PLANNING & DEVELOPMENT) INDIA LTD., OF C.I.F.T. BUILDINGS, P.O. SINDRI, PIN 828122, DIST. DHANBAD, BIHAR, INDIA.

Inventors : 1. RAVI MOHAN BHATNAGAR, 2. RAM MOHAN VERMA, 3. ASHWARNI KUMAR SINGH, 4. SATYENDRA VARMA.

Application No. 1384/Cal/81 filed December 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An improved process for preparing glassy sodium metaphosphate from wet process phosphoric acid which comprises subjecting said phosphoric acid to a step of neutralisation characterized by the improvement wherein said wet process phosphoric acid has 50-54%  $P_2O_5$  and wherein (i) (a) free sulfuric acid content of the wet process phosphoric acid is first reduced by reacting the same with rock phosphate followed by (b) reaction with alkaline earth carbonate to obtain reaction mass having a pH of less than 1 (ii) whereafter the said mass so obtained is subject to a further reaction with soda alkali such as sodium carbonate, sodium hydroxide or sodium phosphate in order to reduce the level of impurities such as fluorine in the wet process phosphoric acid and to obtain a mass having a pH of 2.0 to 2.2 thereafter (iii) filtering and separating the precipitated impurities to obtain a clear impurities-free phosphoric acid and thereafter (iv) subjecting the so purified acid to an additional reaction again with soda alkalies such as sodium carbonate or sodium hydroxide to a pH of 4.0 to 4.5, filtering the precipitated metallic impurities to obtain further purified acid, thereafter subjecting the filtrate to concentration to obtain a concentrated solution having 50 to 70% total dissolved solids of phosphate followed by (vii), further concentrating the said solution by heating to obtain a free flowing viscous molten mass and finally (viii) suddenly cooling by quenching the viscous molten mass to obtain required glassy sodium metaphosphate having 67%  $P_2O_5$ .

Compl. Specn 10 pages

Drgs. Nil

CLASS : 39-M: 123.

155685

Int. Cl. C 05b 7/00; C 01b 25/00.

**A PROCESS FOR THE PREPARATION OF NITRO-PHOSPHATE FERTILIZER FROM ROCK PHOSPHATE**

Applicant : PROJECTS & DEVELOPMENT OF INDIA LIMITED FORMERLY KNOWN AS THE FERTILIZER (PLANNING & DEVELOPMENT) INDIA LTD. OF C.I.F.T. BUILDINGS, P.O. SINDRI, PIN-828122, DIST. DHANBAD, BIHAR, INDIA.

Inventors : 1. SATYENDRA VARMA, 2. ASHUTOSH MUKHERJEE, 3. RAM UDAR SINGH, 4. OM PRAKASH MITAL, 5. BISWANATH GUPTA, 6. AJIT KUMAR DAS.

Application No. 1399/Cal/81 filed December 8, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

An improved process for the preparation of nitro phosphate fertilizer from rock phosphate which comprises subjecting the rock phosphate to digestion with nitric acid, treating the digested liquor thus obtained ammonium sulphate followed by removing the gypsum so precipitated whereafter the gypsum free filtrate is ammoniated concentrated and the nitrophosphate fertilizer recovered characterized by the improvement wherein said rock phosphate is low grade rock phosphate as herein described, having a particle size of—100 mesh BSS, said nitric acid is weak nitric acid of 51 to 56 of strength, said ammonium sulphate is of 30—40% strength, and wherein the digestion with nitric acid and treatment with ammonium sulphate are carried out simultaneously or one after the other in the order the digestion for treatment being carried out at 50° to 80°C together or separately, and wherein the gypsum free filtrate is ammoniated to a pH of 4.5 to 5.0 so that low grade rock phosphate can be employed without beneficiation or upgrading the precipitated gypsum is of good filterable quality and almost all the metal oxides (R<sub>2</sub>O<sub>3</sub>) and removed with the gypsum and impurity free final nitrophosphate is obtained with the possibility of recycling recovered ammonium sulphate without further concentration.

Compl. Specn. 11 pages.

Drgs. Nil.

CLASS : 190-A.

155686

Int. Cl. F 01 n 7/18.

## GAS TURBINE COMBUSTORS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : JANOS MIKLOS BEER.

Application No. 113/Cal/82 filed January 29, 1982

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A gas turbine combustor of the two-stage rich lean type operable with reduced emission of fuel-bound and thermal nitrogen oxide products (NO<sub>x</sub>), said combustor comprising a tubular wall means having successive overlapping tubular wall portions axially disposed in downstream location and having successively increasing radii, an annular path provided between each pair of adjacent wall portions in their overlapping area to receive pressurized and axially directed inlet air, means for imparting a tangential velocity to pressurized inlet air entering said combustor through each annular flow path so as to direct each annular air flow as a swirling coolant flow across the downstream inner surface of the outer-most associated wall portion, nozzle means for supplying fuel to said combustor in at least one predetermined combustor location, a first group of said wall portions and associated annular inlet air paths over an upstream portion of said combustor for high temperature NO<sub>x</sub> free oxygen-deficient combustion zone, said tangential velocity imparting means for the respective first group of annular paths being structured to produce a gradient in the tangential velocity of the inlet annular air flows into said rich combustion zone, the axial and radial geometry of said first group of wall portions being arranged to provide a predetermined axially diverging boundary envelope for said rich combustion zone, said rich zone envelope being operative with the associated annular inlet air flow paths and said tangential velocity imparting means under operating inlet air pressure and gas axial velocity conditions to produce a toroidal vortex in said rich combustion zone, with recirculating combustion air being recuperatively supplied substantially by the swirling inlet annular air flow after it has cooled the inner surfaces of said wall portions about said rich combustion zone, a second group of said wall portions and associated annular inlet air paths over a downstream portion of said combustor defining a lean combustion zone for lower temperature low NO<sub>x</sub> combustion with excess oxygen, said tangential velocity imparting means for the respective second group of annular

2—467GI/84

paths being structured to produce a gradient in the tangential velocity of the inlet annular air flows into said lean combustion zone, and the axial and radial geometry of said second group of wall portions being arranged to provide a predetermined axially diverging boundary envelope for said lean combustion zone, said lean zone envelope being operative with the associated annular inlet air flow paths and said tangential velocity imparting means under operating inlet air pressure and gas axial velocity conditions to produce a toroidal vortex in said lean combustion zone.

Compl. Specn. 20 pages.

Drgs. 2 sheets.

CLASS : 69-A

155687

Int. Cl. : H 02 b 13/00.

## METAL ENCLOSED SWITCHGEARS AND METHOD OF MAKING SAME.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA, 15222, UNITED STATES OF AMERICA.

Inventors : 1. ALEXANDER ZWILICH, 2. CARL ROBERT MEROLA, 3. STEPHEN SAMUEL CICCOTELLI.

Application No. 122/Cal/82 filed February 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims

A metal-enclosed switchgear comprising a housing, support means disposed within said housing, conductor means connectable at one portion thereof with an external electrical circuit, first retaining means abutting said support means and having an opening therein of sufficient dimension to accommodate a stab means in a disposition of non-rotation relative to said first retaining means, second retaining means abutting said support means, axially spaced from said first retaining means and having an opening therein of sufficient dimension to accommodate said stab means in a disposition of non-axial translation relative to said second retaining means, stab means fixedly disposed in said first retaining means and said second retaining means in said dispositions of non-axial translation and non-rotatable at a predetermined point relative to said support means for being interconnected at one end thereof to said conductor means and for being interconnectable at the other end with a terminal on circuit breaker apparatus and circuit breaker apparatus disconnectably connected to said other end of said stab means for providing power to said external electrical circuit.

Compl. Specn. 11 pages.

Drgs. 5 sheets.

CLASS : 151C, 151E, 155D, 104-L + N; 136-E. 155688

Int. Cl. B 29 c 24/00, 27/00; B 29 d 23/00;

F 16 b 7/00, 5/00.

## A COMPOSITE POLYTETRA-FLUOROETHYLENE ARTICLE AND A PROCESS FOR MAKING THE SAME.

Applicant : W. T. GORE & ASSOCIATES INC., 555 PAPER MILL ROAD, P.O. BOX 9329, NEWYARK, DELAWARE 19711, U.S.A.

Inventor : JEFFFRY BRUCE BOWMAN.

Application No. 167/Cal/81 filed February 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 3 Claims

A process for making a composite article of expanded polytetrafluoroethylene by joining a plurality of polytetrafluoroethylene segments as to ensure an uninterrupted microstructure and reconnected by fibrils across the join

(a) causing the PTFE segments to be held in the close contact by mechanical means;

(b) restraining the PTFE segments from shrinking in any direction in a manner such for example as described hereinbefore;

(c) heating the PTFE segments, while they are so held, to a temperature above the crystalline melt point of said PTFE segments for a predetermined time; and

(d) allowing the PTFE segments to cool below the crystalline melt point of said PTFE segments while still being held in close contact.

Comp. Specn. 8 pages

Drgs. 2 sheets.

CLASS : 172-C.

155689

Int. Cl. B65h 54/00; 75/02.

AN IMPROVED APPARATUS FOR CHANGING DEPOSITION CANS ON SPINNING PREPARATORY MACHINES, PARTICULARLY ON DRAW FRAMES.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventors : PETER OEHY, & RENE SCHEMID.

Application No. 401/Cal/82 filed April 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

An improved apparatus for changing deposition cans on spinning preparatory machines, particularly on draw frames, with a can to be filled (1) and an empty deposition can (2) held in readiness, and with a first arm (4) which is provided on a first shiftable support member (7) and is pivotable and shiftable, using support members, for the can (1) to be filled and with a second shiftable arm (5) provided on a second shiftable support member (9) which is shiftable using a support member (9) for the empty deposition can (2) for shifting the empty can (2)

from a reserve position to a depositing position, and for simultaneously shifting the filled can (1) from the depositing position into a transfer position, as well as with a drive arrangement (59) (60), for the shiftable support members (7, 9) characterised in that the shiftable support members (7, 9) each are shiftable forward and backward on a straight guide element (10, 11) that the guide elements (10, 11) as seen from above, are arranged at a right angle, as well as that the support member (7, 9) are interconnected force-transmittingly via a shifting means (12, 13, 15, 22) and that the one of the two support members for the forward or backward shifting of both support members is connected with the drive arrangement (59, 60).

Comp. Specn. 23 Pages.

Drgs. 8 sheets.

CLASS : 28-A.  
Cl. F 23 b 7/00

155690

PROCESS AND BURNER FOR PRODUCING A ROTATING POWDERED-COAL FLAME.

Applicant : VEB DAMPAUTOMAT LEIPZIG, OF 7021 1 FIPZIG, ZSCHORTAUER STR. 96, GERMAN DEMOCRATIC REPUBLIC.

Inventor : 1. WOLFGANG SCHUSTER, 2. KARL-HEINZ GILLNER, 3. WERNER HOFFMANN, 4. PAUL BERNHOFT, 5. GUNTER RIEDEL, 6. HANS ISER.

Application No. 636/Cal/82 filed June 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

Process for producing a rotating powdered-coal flame preferably in fire-tube steam generators, characterized in that combustion air of environment temperature is fed to the combustion chamber simultaneously through an axial primary air current loaded prior to entry into the burner with fuel powder consisting of any desired solid fuel, the grain size of which is to that of coarse grain, the content of humidity of which may come up to the limit of transportability as well as through tangentially directed secondary air, whereby

a short and evenly rotatable flame of high radiation intensity with inner recirculation zone is formed and the combustion is effected without axially stirring, with the heat output of the flame being adjustable through modification of the speed and/or powdered-fuel load of the primary-air-powdered-fuel mixture.

Compl. Specn. 8 pages

Drgs. 1 sheet.

CLASS : 32-E; 40-B.

155691

Int. Cl. : C 08 f 1/28.

#### A CATALYTIC PROCESS FOR PRODUCING ETHYLENE HOMOPOLYMER.

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors : 1. BURKHARD ERIC WAGNER, 2. FREDERICK JOHN KAROL, 3. GEORGE LEONARD GOEKE, 4. ROBERT JAMES JORGENSEN 5. NILS FRIIS.

Application No. 678/Cal/82 filed June 11, 1982.

Division of Application No. 320/Cal/79 dated 30th March, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A catalytic process for producing ethylene homopolymer with a Ti containing catalyst at a productivity of  $\geq 50,000$  pounds of polymer per pound of Ti under a pressure of  $<1000$  psi in the gas phase

said polymer being produced in granular form and having a density of  $\geq 0.958$  to  $\leq 0.972$  gm/cc and a melt flow ratio of  $\geq 22$  to  $\leq 32$

which comprises homopolymerizing ethylene at a temperature of 30 to 115°C by contacting the monomer charge with, in the presence of 0 to 2.0 mols of hydrogen per mol of ethylene in a gas phase reaction zone, practices of the catalyst composition prepared by

(A) forming, a precursor composition of the formula



wherein R is a C<sub>1</sub> to C<sub>11</sub> aliphatic or aromatic hydrocarbon radical, or COR' wherein R' is a C<sub>1</sub> to C<sub>11</sub> aliphatic or aromatic hydrocarbon radical,

X is selected from the group consisting of Cl, Br, I or mixtures thereof, ED is an electron donor compound,

m is  $\geq 0.5$  to  $\leq 56$

n is 0 or 1

p is  $\geq 6$  to  $\leq 116$  and

q is  $\geq 2$  to  $\leq 85$

by dissolving at least one magnesium compound and at least one titanium compound in at least one electron donor compound so as to thereby form a solution of said precursor composition in said electron donor compound, and recovering said precursor composition from said solution,

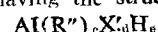
said magnesium compound having the structure MgX<sub>2</sub>,

said titanium compound having the structure Ti(OR)<sub>a</sub>X<sub>b</sub>, wherein a is 0 or 1, b is 2 to 4 inclusive and a+b=3 or 4

said electron donor compound being liquid organic compound in which said magnesium compound and said titanium compound are soluble and which is selected from the group consisting of alkyl esters of aliphatic and aromatic carboxylic acids, aliphatic ethers, cyclic ethers and aliphatic ketones and said magnesium compound, said titanium compound and said electron donor compound being employed in such amounts as to satisfy the values of m, n, p and q.

(B) diluting said precursor composition with 1 to 10 parts by weight, per part by weight of said precursor composition, of at least one inert carrier material, and

(C) completely activating the diluted precursor composition with up to about 400 mols of activator compound per mol of titanium in said precursor composition, said activator compound having the structure



wherein X' is C1 or OR" and R" are the same or different and are C1 to C14 saturated hydrocarbon radicals, d is 0 to 1.5, e is 1 or 0 and c+d+e=3;

said complete activating being conducted with 10 to 400 mols of said activator compound.

Comp. Specn. 46 pages.

Drgs. 1 sheet.

CLASS 63B.

155692

Int. Cl. : H02k 3/00.

ELECTRIC MACHINE STATOR.

Applicant : LENINGRADSKOE PROIZVODSTVENNOE IZKOMASHINOSTROITEL'NOE OBIEDINENIE "EL'KIROVSKA" IMI NI S. M. KIROVA, OF LENINGRAD, MOSKOVSKY, PROSPEKT, 158, U.S.S.R.

Inventors : GARRY MIKHAILOVICH KHUTORETSKY, (2) ALEXANDR IVANOVICH VORONTSOV, & ANATOLY DENISOVICH IGNATIEV.

Application No. 444/Cal/82 filed April 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An electric machine stator comprising a bar winding supported in the slots of a core built up of lamination stacks by means of oppositely-directed lower and upper slot wedges, and non-magnetic pressure fingers secured to the end faces of the core and having holes each extreme lower slot wedge extending beyond the end face of the core and being secured by a cord bandage placed into a transverse groove made in said wedge and passing through the holes of the pressure fingers adjacent to this wedge.

Comp. Specn. 9 pages.

Drgs. 1 sheet.

CLASS : 32-E

155693

Int. Cl. : C 08 f 3/00.

IMPROVED POLYMERIZATION PROCESS FOR CARBOXYL CONTAINING POLYMERS.

Applicant : THE B.F. GOODRICH COMPANY, OF 277 PARK AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : HUNG SOON PARK, & AUGUST HENRY JORGENSEN JR.

Application No. 764/Cal/82 filed June 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A method for polymerizing at least one olefinically unsaturated monomer having at least one activated carbon to carbon olefinic double bond and at least one carboxyl group in presence or absence of at least one other vinylidene monomer as herein described, in an organic media consisting essentially of organic liquids in which said carboxylic acid is at least partially soluble and in which polymer of said acid is substantially insoluble wherein the solubility parameter of the said organic media ranges from 5 to 10(cal/cm<sup>3</sup>) and a dielectric constant of 1.7 to 9.5 in presence of a free radical forming catalyst and a nonionic surface active agent having HLB value in the range of 1 to 10 said method comprising the steps of charging said reactants in weight percent as herein described to a reactor, conducting the polymerization reaction at a temperature of 25°C to 190°C to obtain polymer yield in the range of 75% to 100% agitating the mixture for a period of 5 to 12 hours and drying the product if necessary.

Comp. Specn. 24 pages.

Drg. Nil.

CLASS : 32Fc

155694

Int. Cl. C 07 c 129/00.

IMPROVEMENT IN A PROCESS FOR THE PRODUCTION OF GUANIDINE NITRATE FROM A MIXTURE OF UREA AND AMMONIUM NITRATE.

Applicant : INDUSTRIE CHEMIE THOMA GMBH & CO., PRODUKTION K.G. OF POSTFACH 1660, 8264 WALDKRAIBURG, FEDERAL REPUBLIC OF GERMANY.

Inventors : MATHIAS THOMA.

Application No. 1196/Cal/82 filed October 14, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claims

In a process for the production of guanidine nitrate from urea and ammonium nitrate in the presence of a silicium oxide catalyst under increased temperature wherein the initial mixture of urea and ammonium nitrate contains an excess of ammonium nitrate which is kept practically constant during this operation up to the final phase and until the total urea portion is converted, the improvement consists in that the catalyst, after conversion of urea and ammonium nitrate into guanidine nitrate, is removed from the reaction melt by filtration and slurried up several times by means of molten ammonium nitrate or a mixture of ammonium nitrate/urea, together with adherent components like ammonium nitrate, guanidine nitrate and by-products like triazenes which operation is carried out at a temperature of 135°C to 200°C whereby the adherent components are displaced and removed by subsequent filtration and the catalyst is recycled.

Comp. Specn. 7 pages.

Drg. Nil

CLASS : 32A<sub>2</sub>

155695

Int. Cl. : C 09 b 21/00.

PROCESS FOR PREPARING METHYLENE BLUE POWDER.

Applicant & Inventor: DR. ARUN KRISHNA CHATTERJEE AND DR. (MRS.) MEENA CHATTERJEE, BOTH OF BLOCK X, E. FLAT 4, (SPECIAL FLAT) BELGACHIA VILLA, CALCUTTA-700 037, WEST BENGAL, INDIA.

Application No. 729/Cal/82 filed June 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for preparing special methylene blue powder for making haematological stain, which comprises preparing a buffer (aluminium hydroxyde) by adding liquor ammonia into a saturated aqueous solution of common alum, as herein described, adding to said buffer 2% aqueous solution of methylene blue in equal volume and allowing the mixture to stand, boiling for 5 minutes said mixture and filtering the solution hot, and drying the filtrate as herein-described.

Comp. Specn. 9 pages.

Drg. Nil.

CLASS : 52A

155696

Int. Cl. : D 061 3/00.

PROCESS FOR BLEACHING TEXTILES OR REMOVING STAINS FROM TEXTILES.

Applicant : CIBA-GEIGY AG., KLYBICKSTRASSE 141, 4002 BASLE, SWITZERLAND.

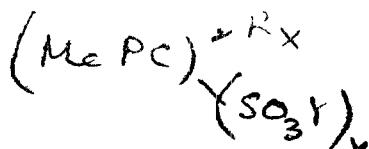
Inventor : GERD HOLZLE, (2) GERHARD REINERT, & RUDOLF POLONY.

Application No. 978/Cal/81 filed August 31, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A process for bleaching textiles or removing stains from textiles comprising treating the textiles with one more water-soluble sulfonated phthalocyanine compounds of formula 1.



wherein "Me" represents zinc or aluminium, "PC" represents a phthalocyanine ring system; "Y" is hydrogen, an alkali metal ion, an ammonium ion, or an amine salt ion as hereinbefore described, "V" is any number between 1 and 4; "R" is a neutral group which do not confer solubility in water such as halogen atoms or pseudo-halogens; and 'X' is any number between 0.1 and 8; it being possible for the substituents R represent in the molecule to be identical or different; the treatment being carried out in the presence of water and under irradiation with light such as hereinbefore described the concentration of the phthalocyanine being between 0.001 and 100 mg/lit.

Comp. specn. 32 pages.

Drg. 1 sheet.

CLASS : 127F 155699

Int. Cl. : F 16 h 1/00.

## LOW FRICTION GEARS

Applicant & Inventor : PROF. SUDHIR KUMAR DHAR, OF LA VILLA ROUGE, J. C. MALICK ROAD, P.O. DHANBAD-826 001, INDIA.

Application No. 1353/Cal/81 filed November 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A pair of gears adapted to mesh together characterised in that the teeth on one of the gears is replaced by or fitted with ball of roller bearings, the balls or rollers of which are adapted to engage in the grooves between the teeth on other gear.

Comp. specn. No. 6 pages.

Drg. 1 sheet

CLASS : 80-K; 167-C 155698

Int. Cl. : B 03 c 3/66, 3/68.

## DEVICE FOR CONTROLLING THE DC VOLTAGE IN AN ELECTROSTATIC PRECIPITATOR.

Applicant : F.L. SMIDH & CO. A/S., OF 77, VIGER-SLEV ALLE, DK-2500 VALBY, COPENHAGEN, DENMARK.

Inventor : LEIF LIND.

Application No. 1427/Cal/81 filed December 17, 1981.

Convention dated 17th December, 1980 (8040463) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A device for controlling the DC-voltage in an electrostatic precipitator used for producing a relatively clean gas from a dusty gas having DC-supply means energized by pulses super-imposed on the DC-voltage characterized by means for turning off the pulses periodically, means for measuring the corona discharge current and comparing it with a set value, and means for varying the DC-voltage depending on whether the discharge current is measured lower or higher than the set value, respectively.

Comp. specn. 10 pages.

Drg. 2 sheets.

CLASS : 32-F<sub>3</sub>C

155699

Int. Cl. : C 07 c 29/00, 31/08.

AN IMPROVED PROCESS FOR PREPARING ETHANOL FROM METHANOL BY REACTION WITH HYDROGEN AND CARBON MONOXIDE.

Applicant: TEXACO DEVELOPMENT CORPORATION, 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10650, UNITED STATES OF AMERICA, FORMERLY 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, U.S.A.

Inventors : 1. JOHN FREDERICK KNIFTON, 2. JIANG-JEN LIN.

Application No. 15/Cal/82 filed January 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A process for preparing ethanol by contacting a mixture of carbon monoxide, hydrogen and methanol at a pressure of at least 35 bars and a temperature of at least 150°C with a catalyst system comprising :

(a) from 1  $\times$  10<sup>-6</sup> to 5 weight percent, based on the total weight of reaction mixture, of a ruthenium compound,

(b) a quaternary phosphonium or ammonium base or salt, the molar ratio of ruthenium to the quaternary phosphonium or ammonium base or salt being from 1 : 0.01 to 1 : 100, and

(c) from 1  $\times$  10<sup>-6</sup> to 5 weight percent, based on the total weight of reaction mixture, of cobalt (II) iodide, cobalt (II) bromide or cobalt (II) chloride.

Comp. specn. 24 pages.

Drg. Nil.

## CLASS : 74

155700

Int. Cl. : D 061 3/00.

## PROCESS FOR DE-SIZING AND BLEACHING WOVEN FABRICS AND FABRICS OBTAINED THEREBY.

Applicant : PCUK PRODUITS CHIMIQUES UGINE KUHLMANN, OF TOUR MANHATTAN LA DEFENSE 2, 5 & 6 PLACE DE TIRIS, 92400 COURBEVOIE, FRANCE.

Inventor : 1. JEAN MARIE CHOLLEY.

Application No. 26/Cal/82 filed January 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A process for de-sizing and bleaching fabrics in a single operation which process comprises treating the fabric in a bath comprising sodium chlorite, a base, an activating agent such as herein described, and an enzymatic preparation including a starch-degrading enzyme and a surfactant.

Comp. specn. 12 pages.

Drg. Nil.

## CLASS : 190-A

155701

Int. Cl. : F 02 c 3/00.

## A CATALYTIC COMBUSTION SYSTEM FOR A STATIONARY GAS TURBINE.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. PAUL WALTER PILLSBURY, 2. PAUL EDWARD SCHEIHING, 3. JAMES ANTHONY LAUREL, 4. JOEL LYLE TOOF.

Application No. 175/Cal/82 filed February 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A catalytic combustion system for a stationary gas turbine comprising a combustor basket having a tubular sidewall defining a primary combustion zone therein, primary nozzle means for supplying fuel for combustion in the primary zone, said combustor basket sidewall defining a secondary zone downstream from the primary zone, secondary means for injecting fuel and air into the secondary zone for mixing with the primary combustion product flow to provide a fuel-air mixture at a combustor basket outlet sufficiently mixed and heated to undergo catalytic reaction, a catalytic unit, means for supporting said catalytic unit to receive the outlet flow from said combustor basket, and means for supplying fuel to said primary nozzle means and said secondary injecting means in a predetermined coordinated manner, wherein said basket sidewall is structured along the primary combustion zone such that the primary zone outlet cross-section is at least as great as the primary zone cross-section over the primary zone upstream from the primary zone outlet, said combustor basket including a downstream diffuser end portion having a sidewall which defines an expanding path for the fuel-air mix over the entire secondary zone from the fuel injection plane to the basket outlet, said diffuser end portion having an end sidewall section which is outwardly flared such that hot gas streams move toward the flared end section sidewall.

Compl. specn. 16 pages.

Drgs. 4 sheets.

## CLASS 129-G

155702

Int. Cl. : B 23 q 11/00.

## COOLING SYSTEM FOR COOLING THE BITS OF A CUTTING MACHINE.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OH A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. HERWIG WRULICH, 2. ALFRED ZITZ, 3. OTTO SCHETINA, 4. SIEGMAR GEKLE.

Application No. 199/Cal/82 filed February 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

System for cooling the bits of a cutting machine comprising a nozzle for the cooling water to be ejected under pressure, said nozzle being arranged at the area of the bit, the water supply to said nozzle being closable by means of a shutoff valve and the bit being supported on the bit holder for limited axial shifting movement under the action of the cutting pressure against the force of a spring and against the hydraulic pressure of the cooling water and the shutoff valve being coupled with the bit by means of a coupling member such that the shutoff valve is opened on shifting movement of the bit in direction of the cutting pressure, characterized in that the bit has in a manner known per se the shape of a cap and is enclosing a bit shaft adapted to be inserted into the bit holder, in that the cap-shaped bit is supported on the shaft for shifting movement in axial direction and in that the shutoff valve and the coupling member are arranged within the bit shaft.

Compl. specn. 8 pages.

Drgs. 1 sheet.

CLASS : 32-F<sub>1</sub>

155703

Int. Cl. : C 07 d 33/36, 33/38.

## PROCESS FOR PREPARATION 7-CHLORO-4-HYDROXYQUINOLINE.

Applicant : RECKITT & COLMAN OF INDIA LIMITED OF 41, CHOWRINGHEE ROAD, CALCUTTA-700 071, STATE OF WEST BENGAL, INDIA.

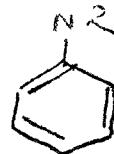
Inventors: 1. DR. SURENDRA PRASAD BHATNAGAR, 2. DR. BAJRANG BALI SINGH, 3. DR. CHOLLA GHATTA GUNDU RAO, 4. DR. ARAKALI SREENI-VASARAO RADHAKRISHNA.

Application No. 1236/Cal/82 filed October 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Improved process for the preparation of 7-chloro-4-hydroxyquinoline by decarboxylation of 7-chloro-4-hydroxy quinoline-3-carboxylic acid characterized in that the said decarboxylation is carried out in the presence of a compound of formula (1) of the accompanying drawings,



wherein R is O<sub>2</sub>, (CH<sub>2</sub>)<sub>2</sub> or =CH-CH=EA at a temperature in the range of 190 to 230°C.

Compl. specn. 7 pages.

Drgs. 1 sheet.

## CLASS : 12-B

155704

Int. Cl. : C 23 c 9/10.

## A PROCESS FOR NITRIDING COMPONENTS OF STEEL AND IRON.

Applicant : DEGUSSA A.G. OR POSTFACH 1345, RODENBACHER CHAUSSEE 4, D-6450 HANAU 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. JOHANNES MULLER, 2. DR. HELMUT KUNST, 3. CHRISTIAN SCONDOR.

Application No. 1258/Cal/82 filed October 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for nitriding components of steel and iron such as tools, crank shafts, cam shafts, tappets, gear wheels and bearings comprising subjecting said components to a nitriding operation in a bath containing cyanides, cyanates and carbonates of the alkali metals with cyanide contents between 0.01 and 3% CN<sup>-</sup>, characterized in that the bath contains additionally 0.5 to 100 ppm selenium in the form of known selenium compounds and/or as elementary selenium; the CNO and the temperature of the bath lies between 550 and 650°C.

Compl. specn. 9 pages.

Drgs. Nil.

CLASS : 32-F<sub>1</sub>; 55-D<sub>2</sub>; 60-X.

155705

Int. Cl. : C 07 c 43/28, 79/34, 109/04.

## A PROCESS FOR PREPARING A HERBICIDAL COMPOUND.

Applicant : MITSUI TOATSU CHEMICALS, INCORPORATED, NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

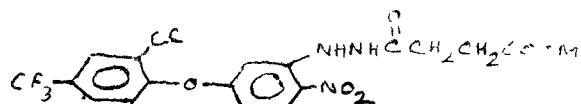
Inventors : 1. TAKEO YOSHIMOTO, 2. KEIICHI IGRASHI, 3. KENGO ODA, 4. YOSHINORI TANAKA, 5. MASAAKI URA, 6. YUJI ENOMOTO, 7. YASUNOBU FUNAKOSHI, 8. TAKASHI FUJITA, 9. YOSHIKATA HOJO.

Application No. 291/Cal/83 filed March 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

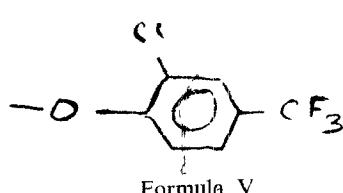
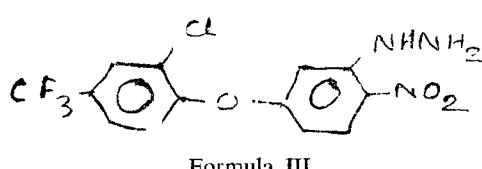
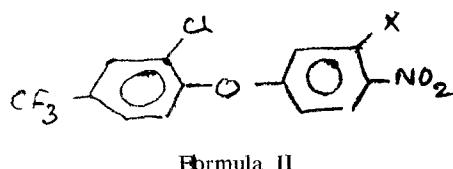
## 1 Claim

A process for preparing a herbicidal compound having the formula (I) of the accompanying drawings



wherein M means an alkali metal, which comprises the following consecutive steps:

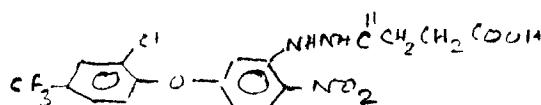
(1) reacting a compound having the formula (II)



wherein X stands for a nitro group, chlorine atom or a group of formula (V),

with hydrazine, thereby obtaining a compound having the formula (III);

(2) reacting said compound with succinic anhydride in the presence of a dehydrating agent thereby obtaining a compound having the formula (IV).



(3) converting said carboxylic acid of Formula (IV) into its alkali metal salt by an appropriate conventional method.

Compl. specn. 24 pages.

Drgs. 1 sheet.

CLASS : 27-I

155706

Int. Cl. : E 04 c 2/00.

PREFABRICATED PANEL FOR USE IN CONSTRUCTING BUILDINGS.

Applicant & Inventor : LEONARD DAVID COLLINS, OF 28, WYCHELM ROAD, HERNCURCH, ESSEX, ENGLAND.

Application No. 232/Cal/84 filed April 10, 1984.

Divisional Application No. 425/Cal/80. 23rd December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A prefabricated panel for use in constructing buildings, comprising a core of reinforced concrete housed within a rigid sheath made of non-corrosive material, wherein the sheath constitutes a mould for casting the core and a protective covering for the core when the concrete has been cured, and wherein the sheath comprises two side plates, two end plates and a base plate, the side plates and the base plate being provided with flanges which are connected to the end plates to form said rigid sheath.

Compl. specn. 9 pages.

Drgs. 1 sheet.

Ind. CLASSES : 32 F2b, 55 E2 + E4

155707

Int. Cl. : A 61 K 21/00, C 07 d-51/36 51/42.

A NOVEL PROCESS FOR THE MANUFACTURE OF 5-ARALKYL-2, 4-DIAMINOPYRIMIDINES.

Applicant : HINDUSTAN CIBA-GEIGY LIMITED, OF 14 J. TATA ROAD, BOMBAY 400 020, MAHARASHTRA STATE, INDIA, AN INDIAN SUBSIDIARY OF THE SWISS COMPANY CIBA-GEIGY LIMITED, BASLE, SWITZERLAND.

Inventor : KRISHNA GOVINDRAM DAVE.

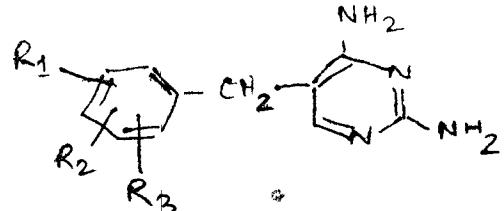
Application No. 27/Bom/82 filed February 2, 1982.

Complete after provisional left on January 22, 1983.

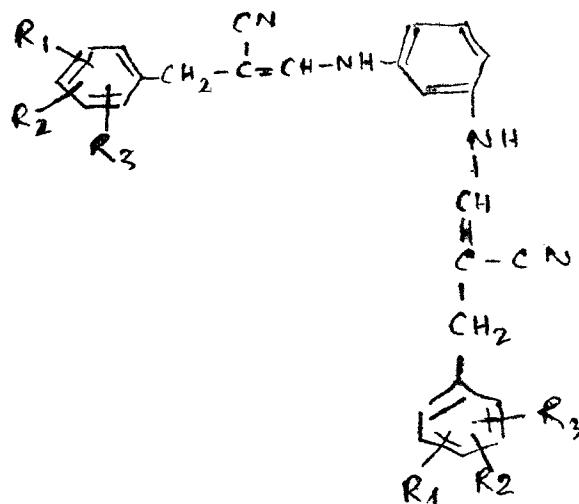
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

A process for the preparation of 5-alkyl-2, 4-diaminopyrimidines of the general formula I



wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> each represents a hydrogen atom, or a lower alkyl, lower alkoxyaryl, lower alkoxy or a lower alkylthio group or any two of R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> together represent an alkyleneoxy group as herein described and the remaining of R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> represents a hydrogen atom or a lower alkyl, lower alkoxy aryl, lower alkoxy or lower alkylthio group, said process comprising reacting a compound of the formula II



wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> have the above defined meanings, with guanidine which is produced in situ by treating guanidine hydrochloride with an alkanol such as methanol containing a metal alkoxide such as sodium methoxide and at a temperature between 50°-200°, and if desired converting the compound of the said formula I, into its pharmaceutically acceptable acid addition salts in known manner.

Complete specification 10 pages. Drawings nil.

Provisional specification 9 pages. Drawings 2 sheets.

CLASS : 77A + C, 83A1

155708

Int. Cl. : C 11 c 3/00, 3/04.

A NOVEL METHOD FOR THE MANUFACTURE OF EDIBLE VEGETABLE OIL OF UNIFORM GRAIN CONSISTENCY.

Applicants : GODREJ SOAPS LIMITED EASTERN EXPRESS HIGHWAY, VIKHROLI, BOMBAY-400 079, MAHARASHTRA, INDIA.

Inventors : NADIR BURJORJI GODREJ AND (2) MANMOHAN SHANKAR THAKUR.

Application No. : 75/Bom/1982 filed March 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims

A novel method for the manufacture of edible vegetable oil of uniform grain consistency, said method comprising melting edible vegetable oil and filling the edible vegetable oil melt in tin(s) or the like container(s) and cooling the tin (s) or the like container (s) characterised in that prior to filling in or cooling the tin(s) or the like container(s), the vegetable oil melt is seeded with 0.001% to 10% of fine crystals of at least one hydrogenated edible vegetable oil having an iodine value between 0 and 30.00 and a melting point higher than the melting point of the edible vegetable oil melt, the seeding being carried out at a temperature below the melting point of said crystals, said crystals remaining in suspension till the edible vegetable oil melt solidifies and providing a seeding nucleus to obtain uniform grain consistency of the edible vegetable oil.

Comp. specn. 10 pages. Drgs. nil.

CLASS : 146 D 1 & D 3

155709

Int. Cl. : Goln—21/46.

A CONTINUOUS AND AUTOMATIC TYPE LIQUID REFRACTIVE INDEX AND/OR LIQUID REFRACTIVE INDEX DEPENDENT PARAMETER MEASURING AND INDICATING DEVICE.

Applicants & Inventors : JAYESH RAMESH BELLARE, 44/1318 ADARSH NAGAR, PRABHADEVI, BOMBAY-400 025, MAHARASHTRA, INDIA AND ARVIND PANDURANG KUDCHADKER, H-10 DATTAGURU SOCIETY, DEONAR, BOMBAY-400 088, MAHARASHTRA, INDIA.

Application No. : 86/Bom/1982 filed April 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

11 Claims

A continuous and automatic type liquid refractive index and/or liquid refractive index dependent parameter measuring and indicating device, said device comprising a pair of right angled prism rigidly supported in a prism housing with their hypotenuse sides or bases confronting each other with a spacing therebetween, said spacing forming a continuous flow channel for the liquid whose refractive index and/or refractive index dependent parameter is/are to be continuously measured and indicated, both the ends of said channel being open, one end of said channel acting as the inlet of said liquid and the other end of said channel acting as the inlet of said liquid and the other end of said channel acting as the outlet of said liquid; an intensity invariable monochromatic electromagnetic radiation source denser consisting of at least one pair of lenses interposed between said monochromatic electromagnetic radiation source and said one right angled prisms; a microscope focussed on the other of said right angled prisms; a photosensitive unit; and an indicator connected to said photosensitive unit, said prism housing, said monochromatic electromagnetic radiation source, said condenser, said microscope, said photosensitive unit and said indicator being mounted in a casing, said indicator being calibrated in terms of refractive index and/or refractive index dependent parameter, said photosensitive unit being proportional to the ratio of the bright zone and the dark zone of said image, said current being proportional to the refractive index of said liquid and driving said indicator to indicate the refractive index and/or refractive dependent parameter of said liquid.

Compl. specn. 15 pages.

Drg 1 sheet.

Ind CLASS : 32 Fa

155710

Int Cl. : C 07 c, 95/00, 95/08.

A PROCESS FOR THE PREPARATION OF 2, 6-DIMETHYL-4-FORMYL ANILINE,

Applicants : HOECHST INDIA LIMITED, HOECHST HOUSE, NARJMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021.

Inventors : 1. DR. BANSI LAL, (2) RAMESH MATIORAM GIDWANI, 3. DR. MOEL JOHN DE SOUZA, AND 4. DR. JURGEN REDEN.

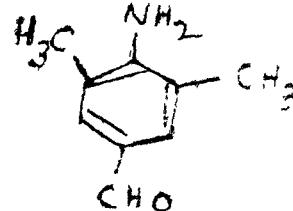
Application No. 133/Bom/1982 filed May 17, 1982.

Complete after provisional left June 9, 1983.

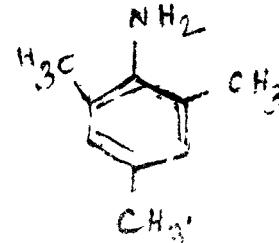
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

A process for the preparation of 2, 6-dimethyl-4-formyl aniline of the formula II



said process comprising regiospecific oxidation of mesidine of the formula I



by treating mesidine of the said formula I with a high potential quinone such as 2, 3-dichloro-5, 6-dicyano-1, 4-benzoquinone (DDQ) in organic solvent such as benzene, dioxane or the like at temperatures ranging from 5°C to the boiling point of the said solvent; and recovery of the 2, 6-dimethyl-4-formylaniline of the said formula II from the resulting reaction mixture in a known manner such as herein described.

Compl. specn. 4 pages

Drg. Nil.

Provisional specn. 3 pages.

Drg. 1 sheet.

CLASS : 170 D

155711

Int. Cl. : C 11 d—13/00.

PROCESS FOR THE MANUFACTURE OF TOILET SOAP FROM FATTY ACIDS.

Applicant: THE TATA OIL MILLS COMPANY LIMITED, BOMBAY HOUSE, HOMI MODY STREET, FORT, BOMBAY 400 023, MAHARASHTRA, INDIA.

Inventor : BANTWAL PRABHAKARA BALIGA, (2) NADELLA LAKSHMINARAYANA MURTY, (3) FEROZE ERUCHI DAROOWALA AND (4) VIMAL MOTILAL PATOLAWALA

Application No. 144/Bom/1982 filed on May 31, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch

11 Claims

A process for the manufacture of toilet soap from the blend of fatty acids such as herein described which comprises the steps of :

(a) taking a blend of melted fatty acids at a temperature of 65° to 70°C. whose titre is in the range of 36° to 43°C;

- (b) adding upto 0.5% by wt. of solid sodium chloride to the fatty acid blend or in solution along with caustic alkali solution which is based on the total quantity of the fatty acid;
- (c) adding stoichiometric quantity of caustic alkali and/or alkali carbonates solution to the blend of step (b) with agitation of the mixture;
- (d) heating the agitated mass by passing steam for a period of upto 60 minutes;
- (e) cooling the agitated mass of soap formed by blowing a current of air over the surface of the said soap mass;
- (f) milling the soap mass to ensure completion of reaction and to obtain a homogeneous mass which is converted into needle form for convenience of storage, characterised by that the steps (a) to (e) are carried out in an open mouth sigma-type jacketed kneader or ribbon blender.

Compl. specn 12 pages.

Drg. Nil.

CLASS : 60-f

155712

Int. Cl. : A 41 b 9/00.

AN IMPROVED BRIEF AND A METHOD OF  
MAKING THE SAME.Applicant : THE VIJAYAKUMAR MILLS LIMITED,  
OF KELAYAMPUTHUR P.O., (VIA) PALNI, S.R.Y., PIN  
CODE NO. 624 615, TAMIL NADU.Inventor : ARIEKESAVANALLUR VENKATARAMAN  
KRUSHNUN.

Application No. 171/Mas/81 filed September 18, 1981.

Complete Specification left August 18, 1982.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims. No. drawing.

An improved brief comprising a fabric portion having a pair of thigh openings and a waist opening, and an elastic name tape such as herein described which runs around and is stitched to the hem of said waist opening. said elastic tape is then folded in such a way that its inner side is disposed contiguously around the outer surface of the fabric portion, and the lower section of the thus folded elastic name tape is stitched in place on the fabric portion, whereby the entire inner surface of the elastic name tape has a fabric lining.

A method of making a brief as claimed in Claim 1 or 2 comprising stitching the lower section of the reverse side of the elastic name tape around the waist opening of the fabric portion, folding the elastic tape in such a way that its inner side is disposed contiguously around the outer surface of the fabric portion, and then stitching the lower section of the thus folded elastic name tape in place on the fabric portion.

Prov. specn. 6 pages

Compl. specn. 8 pages

CLASS : 63-I &amp; 107-B

155713

Int. Cl. : F 01 b 29/08 &amp; H 01 f 13/00.

A TWO STROKE MAGNETIC ENGINE.

Applicant & Inventor : KALAGATTADA SHIVAPPA  
BASAVARAJ, 670/1, MANDIPET, DAVANGERE, KAR-  
NATAKA.

Application No. 57/Mas/82 filed March 12, 1982.

Complete specification left June 21, 1982.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Madras Branch.

## 16 Claims

A two stroke magnetic engine comprising a crank shaft whose ends after being journaled through the walls of a crank housing are projected outside said walls, the crank pin of said crank shaft being provided with a connecting rod whose other end is secured to a piston slideable within a cylinder which is disposed above said crank housing; a first magnet located over the piston head and freely slideable within said cylinder which carries stationary electro-magnet located under the end cover provided with said cylinder; said first magnet and said stationary electromagnet, which come in juxtaposition with each other with the piston attaining the uppermost position, being disposed in repulsive relationship; one coil end of said electromagnet being connected to one terminal of a battery(ies) whose other terminal is connected to a first relay which comes in contact with a second relay only at the uppermost position of said piston, the other coil end of said electromagnet being connected to said second relay; and a means for imparting initial drive to said crank shaft.

Prov. specn 3 pages.

Compl. specn 13 pages

Drg. 1 sheet  
of size

33.00 cms. x 41.00 cms

CLASS : 146-A, C; 169-C

155714

Int Cl : G 01 c — 19/42; F 41 g — 5/16.

“DEVICE FOR DETERMINING THE VERTICAL  
DIRECTION OF A WEAPON SYSTEM SUPPORTED  
ON A MOVING BASE”

Applicants : AB BOFORS, a joint-stock company organized under the laws of Sweden of S-69020 BOFORS, Sweden.

Inventor : TORBERN TEILING.

Application for Patent No 109/Del/79 filed on 15th February, 1979.

Appropriate office for opposition proceeding (Rule 4,  
Patents Rules, 1972) The Patent Office Branch, Municipal  
Market Building Saraswati Marg, Karol Bagh, New Delhi-  
110005

8 claims

A device for determining the vertical direction of a weapon system supported on a moving base, for example a weapon mounted for elevation and traverse on a platform forming part of a vehicle, including a first and a second gyroscopic sensor mounted on said system for measuring the angular velocities of the weapon system along perpendicular axes of weapon elevation and traverse and a third gyroscopic sensor attached to the weapon for measuring the roll angle velocity of the weapon characterized in that the output terminals of said three gyroscopic sensors are connected to means for calculating the roll and pitch angle of the base in dependence on the angular velocities measured by said gyroscopic sensors.

(Complete Specification 16 Pages Drawings 2 Sheets).

CLASS : 108C

155715

Int Class : C21d 5/00

“A PROCESS FOR THE MANUFACTURE OF NODULAR  
OR SPHEROIDAL GRAPHITE IRON”.Applicant : SCOOTERS INDIA LIMITED an Indian  
company of Sarojini Nagar P.O. Post Bag No 1 Lucknow-  
226 008 India

Inventor : ARUNADITYA SAHAY

Application for patent no 812/Del/80 filed on 17th November 1980

Application for patent no 124/Del/81 filed on 6th March, 1981 and

Application for Patent no 125/Del/81 filed on 6th March 1981.

The provisional specifications cognate and one complete  
specification left on 11th February, 1982.Appropriate office for opposition proceedings (Rule 4  
Patents Rules, 1972) Patent Office Branch, New  
Delhi-110005.

## 7 Claims

A process for the manufacture of nodular or spheroidal graphite iron comprising the steps of providing a nodulating agent in the form of a bed against part of the base and part of a side wall of a ladle, providing a crust or cover of a refractory material bonded by a resinous material which polymerises when the ladle becomes red hot the said crust or cover having at least one orifice, introducing pretreated molten iron into the ladle to such a level as to cause the molten iron to flow through the orifice or orifices into the said bed of nodulating agent to melt and vaporise the said agents, the vapours discharged through the said orifice or orifices into the bath of the molten iron and modulating the iron.

(Provisional specification 18 pages).

(Complete specification 12 pages Drawing 1 sheet).

CLASS : 37A.

155716

Int. Class : B04c 1/00.

"A CYCLONE, MORE PARTICULARLY FOR MULTISTAGE HEAT EXCHANGERS".

Applicant : KRUPP POLYSIUS AKTIENGESELLSCHAFT, of Graf-Galen-Strasse 17, D-4720 Beckum, West Germany, A German Company.

Inventors : OTTO HEINEMANN & HEINZ-HERBERT SCHMITS.

Application for patent no. 164/Del/81 filed on 24th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A cyclone, more particularly for multistage heat exchangers, comprising an externally arranged inlet spiral and a gas pipe which is fed from below and which is bent substantially at a right angle immediately before the inlet spiral, characterised by combination of the following features :

- (a) the inlet spiral is divided up into several partial spirals lying one above the other ;
- (b) the partial spirals have a different length which decreases downwards, the uppermost partial spiral extending over a peripheral angle of at least 180° and the lowermost partial spiral extending over a peripheral angle of at least 90°.
- (c) all the partial spirals open in that diameter of the cyclone housing which corresponds to the diameter of the gas outlet opening of a cyclone made without a dip pipe.

(Complete specification 9 pages Drawing 4 sheets).

CLASS : 164 B.

155717

Int. Class : C02c 1/02.

"APPARATUS FOR THE BIOLOGICAL TREATMENT OF WASTEWATER".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PUBLIC LIMITED COMPANY formerly IMPERIAL CHEMICAL INDUSTRIES LIMITED, of Imperial Chemical House, Millbank, London SW1P 3 JF England a British company.

Inventor : DAVID HUGH BOLTON.

Application for patent no. 166/Del/81 filed on 24th March, 1981.

Convention dated 3rd April, 1980/8011384/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (6 Claims)

An apparatus for the biological treatment of wastewater comprising a downcomer and a riser in direct communica-

tion with each other at their lower ends, means for introducing wastewater into the apparatus, means for supplying a gas containing free oxygen to the wastewater as it passes through the downcomer, means for pumping the wastewater from, or from near, the top or the riser back into the downcomer at or near the top thereof to maintain the level of the wastewater in the downcomer above the level of the wastewater in the riser, thereby providing a hydrostatic pressure head between the wastewater in the downcomer and that in the riser, and outlet means for removing treated wastewater from the riser at substantially the same rate as wastewater is introduced into the apparatus, characterised in that means are provided for varying and adjusting the level at which treated wastewater is removed from the riser through the said outlet means, whereby the level of the wastewater in the riser and the magnitude of the hydrostatic pressure head can be controlled.

(Complete specification 11 pages Drawing 3 sheets).

CLASS : 127D.

155718

Int. Class : F16h 7/00.

"ROTARY MOTION TRANSMITTING DEVICE HAVING A TOOTHED WHEEL AND INDEPENDENTLY MOVABLE MESHING ELEMENTS".

Applicant : PRECISION MECHANICAL DEVELOPMENTS LIMITED, a Corporation organised under the laws of Jersey, Channel Islands, of Normandy House, St. Helier, Jersey, Channel Islands.

Inventors : JOHN CRAVEN CARDEN, PANAYOTIS CONSTANTINE DIMITRACOPOULOS, GEORGE DUNCAN MCRAE ARNOLD.

Application for patent no. 71/Del/81 filed on 26th March, 1981.

Convention date 2nd April, 1980/8011061/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 35 Claims

A rotary motion-transmitting device comprising eccentric means, wheel means freely rotatable about said eccentric means and having first profiles shaped to drivingly engage with independently movable meshing connector elements, and movement-limiting means in the form of second profiles evenly spaced in a datum member which loosely holds said connector elements, each connector element being freely rotatable in said datum member, wherein said wheel means is a toothed wheel with said first profiles constituted by the recesses between adjacent evenly spaced teeth, the connector elements are in rolling driving engagement with the first and second profiles and the rotation of said eccentric means causes said meshing connector elements sequentially to become engaged with said first profiles and subsequently to become disengaged from said profiles and, whilst engaged with said first profiles, a plurality of adjacent ones of said connector elements are simultaneously in driving engagement with a corresponding number of said first and second profiles, such that said first and second profiles constrain said drivingly engaged connector elements, to follow an orbital motion relative to both said first and second profiles.

(Compl. specn. 64 pages.

Drgs. 10 sheets.)

CLASS : 94 G.

155719

Int. Class : B02C 25/00.

"IMPROVEMENTS IN OR RELATING TO A GRINDING APPARATUS".

Applicant : AUSTROPLAN Osterreichische Planungsgesellschaft mbH., a company organized under the laws of Austria, of 234, Linke Wienzeile, 1150 Vienna, Austria.

Inventor : GERHARD FRENZEL AND FRANZ SCHFUCHER.

Application for Patent No. 183/DEL/1981 filed on 31st March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

Grinding apparatus including a rotating horizontally arranged grinding drum on whose one end an axial entrance opening and on whose other end an axial delivery opening are provided, which grinding plant comprises a conveying device conveying the grinding stock from the delivery opening of the grinding drum to a level above the delivery opening, characterized in that the delivery opening runs into a rotationally symmetrically defined delivery chamber rotating about an approximately horizontal axis, whose shell parts conveying the grinding stock extend from a level below as far as to a level above the delivery opening, and the delivery chamber possesses a pick-up means for the grinding stock above the delivery opening.

(Complete specification 16 pages Drawing 2 sheets).

CLASS : 187H, 206E. 155720

Int. Class : H03k 13/02, G06f 15/46.

**"INTERPOLATIVE ANALOG-TO-DIGITAL CONVERTER".**

Applicant : TELEFONAKTIEBOLAGET L M ERICSSON, Manufacturers, of S-126 25 Stockholm, Sweden, a Swedish Company.

Inventors : RUSSEL JAY APPEL, ANDERS GUNNAR ERIKSSON and LARS TOMMY EDWARD SVENSSON.

Application for patent no. 254/Del/81 filed on 23rd April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

An interpolative analog-to-digital converter for a subscriber line audio processing unit comprising :

integrating means (R, C, 77) for integrating the difference between an input analog signal  $x(t)$  and a quantized signal  $q(t)$  to develop an integrated signal;

first comparator means (78) for sampling said integrated signal at a first sampling frequency and for generating first signals of one data state when said integrated signal is positive and second signals of another data state when said integrated signal is negative;

logic means (93) responsive to said first and second signals and operative to develop a sign bit signal, and shift signals; shift register means (79) responsive to said shift signals, and operative to develop a series of multi-bit binary words each having a predetermined number of bits and a magnitude determined by said shift signals;

digital-to-analog converter means (80) responsive to said binary words and said sign bit signal and operative to convert said binary words into said quantized signals  $q(t)$ , said quantized signals  $q(t)$  being positive or negative dependent upon the data state of said sign bit; and

digital signal processing means (Fig. 12) for digitally filtering said series of binary words and for developing binary output signals at a frequency of at least twice the highest signal frequency in said input signal  $x(t)$ , characterized in second comparator means (91) for comparing said input signal  $x(t)$  to said quantized signal  $q(t)$  and for sampling the results of the comparison at said first sampling frequency to develop second signals of one data state when said input signal  $x(t)$  is greater than said quantized signal  $q(t)$  and of another data state when said input signal  $x(t)$  is less than said quantized signal  $q(t)$ ;

said logic means (93) being operative to develop a plurality of signals including said sign bit signal, a shift left signal, a shift right signal and a no shift signal, and

said shift register means (79) being responsive to said shift left signal, said shift right signal and to said no shift signal, said series of multi-bit binary words having a magnitude determined also by said no shift signal.

(Complete Specification 27 pages Drawing 7 sheets).

CLASS : 187H, 206E.

155721

Int. Class : H03k 13/02, G06f 15/46.

**SUBSCRIBER LINE AUDIO PROCESSING CIRCUIT APPARATUS.**

Applicant : TELEFONAKTIEBOLAGET L M ERICSSON, Manufacturers, of S-126 25 Stockholm, Sweden, a Swedish Company

Inventors : RUSSEL JAY APPEL, BENGT GUNNAR MAGNUSSON, STURE GOSTA ROOS and LARS TOMMY EDWARD SVENSSON.

Application for patent no. 255/Del/81 filed on 23rd April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 17 Claims

Subscriber line audio processing circuit apparatus comprising:

analog-to-digital converter means (16) coupled to a subscriber line for sampling an input audio signal at a first sampling frequency (512kHz) and for developing a series of digital words representing the amplitude of each sample; first signal processing means (18) for digitally filtering said series of digital words and for developing a first digitally processed signal having a second sampling frequency (8kHz);

transmission means (20) for transmitting said first digitally processed signal to an external transmission line;

receiver means (22) for receiving a digital response signal at said second sampling frequency (8kHz);

second signal processing means (24) coupled to said receiver means (22) for filtering said response signal and for developing a second digitally processed signal having a third frequency (256kHz); digital-to-analog converter means (26) for converting said second processed signal to analog form suitable for output to said subscriber line;

characterized in that

(a) the first signal processing means (18) contain a main transmit filter (50) together with a first and a second low-pass decimation filter (40, 42), said first lowpass decimation filter (40) reducing the first sampling frequency of said digital words in one or more steps from said first sampling frequency (512kHz) to a fourth sampling frequency (32kHz), said second lowpass decimation filter (42) reducing the fourth sampling frequency (32kHz) to a fifth sampling frequency (16kHz); and the main transmit filter (50) reducing the fifth sampling frequency (16kHz) to the second sampling frequency (8kHz);

(b) the second signal processing means (24) contain a first and a second lowpass interpolation filter (62, 64) together with a main receive filter (56) connected to said interpolation filters (62, 64) for filtering and increasing the sampling frequency of said digital response signal from said second sampling frequency (8kHz) to the fifth sampling frequency (16kHz), said first lowpass interpolation filter (62) filtering and increasing the second processed signal from said fifth sampling frequency (16kHz) to said fourth sampling frequency (32kHz), and said second lowpass interpolation filter (64) filtering and increasing the second processed signal in one or more steps from said fourth sampling frequency (32kHz) to said third frequency (256kHz), the output of said second filter (64) being connected to said digital-to-analog converter means (26) for developing a third digitally processed signal having said third sampling frequency (256kHz), that

(c) balance filter means (44) and impedance filter means (66) are provided to connect said first signal processing means (18) to said second signal processing means (24) to balance out the components of said third digitally processed signal, and to match the audio processing circuit to the input impedance of the subscriber line, respectively and that (d) control interface means (32) are provided having an outgoing control bus (33) connected to said first and second signal processing means (18, 24) and to said balance and impedance filter means (44, 46) controlled from an external source.

(Complete Specification 52 pages Drawing 11 sheets).

CLASS : 14-C; 40-F.

155722

Int. Cl. . H 01 m 7/00.

METHOD AND APPARATUS FOR PREPARING AND FILLING ENVELOPED PLATES FOR BATTERIES.

Applicant : CHLORIDE GROUP LIMITED, OF 52, GROSVENOR GARDENS, LONDON SW1W 0AU, ENGLAND.

Inventor : STANLEY CHARLES FOULKS

Application No. 2023/Cal/75 filed October 18, 1975

Convention dated 18th October, 1974 (45211/74), UK

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

49 Claims

A method for preparing enveloped plates for batteries by introducing an active material composition containing liquids into the porous envelope of the plate, when the envelope is assembled on the current conducting element of the plate, characterized in that the active material of the composition is introduced into the envelope as an aqueous slurry, comprising a lead acid active material composition or a material convertible thereto which has a rotating vane viscometer torque value of less than 0.006 lbs. ft at 20°C, said aqueous slurry being introduced into the envelope at a pressure of less than 5 p.s.i. until the envelope is filled with the composition, liquid issuing through the walls of the envelope, the pressure then being allowed to rise to a value above 5 p.s.i. but not in excess of 100 p.s.i. whereafter the pressure is released.

(Compl. Specn. 95 pages. Drgs. 6 sheets).

## CLAIM UNDER SECTION 20(i) TO PROCEED AS APPLICANT OR JOINT APPLICANT

The claim made by QUADRANT DRIVE B. V. under section 20(i) of the Patents Act, 1970 to proceed with the application for patent no. 171/Del/81 (155718) in their name has been allowed.

## PATENTS SEALED

145435 148978 151863 151975 152080 152676 152795 152808  
 152809 152813 152819 152820 152821 152827 152828 152830  
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 152764 152769 152920 152921 152949 152951 152954 152955.

## AMENDMENT PROCEEDINGS UNDER SECTION 57(6)

In the course of proceedings in opposition to the grant of a patent in respect of the application for patent No. 149652, the acceptance of the complete specification of which was notified in the Gazette of India, Part-III, Section 2, dated the 6th March, 1982, the description of the last paragraph of page 5 of the specification has been substituted by a fresh paragraph.

## RENEWAL FEES PAID

125015 125477 125500 125508 132212 134009 134371 134413  
 134887 136810 136811 136849 136898 137023 137819 137945  
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 152588 152592 152605 152683 152733 152814.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 149072 dated the 3rd March, 1978 made by Bijon Kumar Biswas on the 2nd March, 1984 and notified in the Gazette of India, Part III, Section 2, dated the 9th June, 1984 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No 154734, Greene & Bellogg, Inc., a corporation of Delaware, U.S.A. having a place of business at 290 Greekside Drive, Tonawanda, NY 14150, U.S.A. "Oxygen Concentrator Device". 24th August, 1984.

Class. 1. No. 155176. Keshavji Ravji & Company, also trading as Venkateswara Stainless Steel & Wire Industries, 305 Mint Street, City of Madras, State of Tamil Nadu, India, an Indian Partnership Firm. "Multi-Purpose Plate". 17th December, 1984.

Class. 1. No. 155177. Keshavji Ravji & Company, also trading as Venkateswara Stainless Steel & Wire Industries, 305 Mint Street, City of Madras, State of Tamil Nadu, India, an Indian Partnership Firm. Multi-Purpose Plate". 17th December, 1984.

Class. 1. No. 155131. Meera Metal Industries (a registered Partnership firm). "Container". 4th December, 1984.

Class. 3. No 154221 Larsen & Toubro Limited, of L & T House, Ballard Estate, Bombay 400 038, Maharashtra, India, an Indian Company. "Thermal Overload Relay". 23rd March, 1984.

Class. 3. No 154222. Larsen & Toubro Limited, of L & T House, Ballard Estate, Bombay-400 038, Maharashtra, India, an Indian Company. "a Thermal Overload Relay". 24th March, 1984.

Class. 3. No. 154953. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "a Mono Cassette Recorder". 12th October, 1984.

Class. 3. No. 154871. Harish Chander Chhabra, trading as R. R. Industries, 2596, Basti Punjabian, Subzi Mandi, Delhi-110007. "TOY". 21st September, 1984.

Class. 3. No 154483 Adam Mullik an Indian, trading as Maxlok Corporation (India). 3, Lancers Road, Delhi-110007. "Thermoplastic Sheets for Packing". 2nd June, 1984.

Class. 3. No. 154883. Camlin Private Limited, a company incorporated in India, of J. B. Nagar, Andheri Kurla Road, Andheri, Bombay-400 059, State of Maharashtra, India, "Bottle". 25th September, 1984.

Class. 3. No. 155135. Milton Plastics, a registered Indian Partnership Act, 1932, having its office at 202/203, Raheja Centre, 214, Nariman Point, Bombay-400 021, Maharashtra, India. "a Crescent Trat" 5th December, 1984.

Class. 3. No. 155148. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "Mono Cassette Recorder". 7th December, 1984.

Class. 3. No. 155167. Milton Plastics, a registered Indian Partnership Firm. "a Crate". 13th December, 1984.

**Class. 3.** No. 155168. Milton Plastics, a registered Indian Partnership Firm. "an Insulated Flask". 13th December, 1984.

**Class. 3.** No. 155169. Milton Plastics, a registered Indian Partnership Firm. "an Insulated Tiffin Carrier". 13th December, 1984.

**Class. 3.** No. 155136. Milton Plastics, a registered Indian Partnership Firm. "a Tray". 5th December, 1984.

**Class. 3.** No. 155116. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "Toy Merry-go-round" 30th November, 1984

**Class. 3.** No. 155190. Polyset Corporation, 904, Regent Chambers, Nariman Point, Bombay-400021, State of Maharashtra, an Indian Sole Proprietary Firm. "Salt & pepper Containers Set". 19th December, 1984.

**Class. 3.** No. 155201. Eagle Flask Private Limited, an Indian Company under the Companies Act, at Eagle Estate, Talegaon-410 507, Maharashtra State, India. "Vacuum Flask". 20th December, 1984.

**Class. 3.** No. 155204 Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-18 (WB), Maharashtra State, India, an Indian Company. "a Two Band Table Radio". 20th December, 1984.

**Class. 4.** No. 154882 Camlin Private Limited, a company incorporated in India, of J. B. Nagar, Andheri Kurla Road, Andheri, Bombay-400 059, State of Maharashtra, India. "Bottle". 25th September, 1984.

NAME INDEX OF APPLICANTS FOR PATENTS FOR THE MONTH OF SEPTEMBER 1984 (NOS. 607/CAL/84 TO 702/CAL/84, 243/BOM/84 TO 275/BOM/84 669/MAS/84 TO 745/MAS/84 AND 689/DEL/84 TO 766/DEL/84)

*Name & Application No*

—A—

AE PLC, 678/Mas/84.

Air Products and Chemicals, Inc., 704/Mas/84, 728/Mas/84.

Alexeev, A.M., 716/Del/84.

American Can Company, 699/Cal/84.

Anchor Hocking Corporation, 749/Del/84.

Asahi Glass Company Limited, 652/Cal/84.

Asea Aktiebolag, 742/Del/84.

Ashland Oil, Inc., 762/Del/84.

Ashlow Ltd., 705/Del/84, 706/Del/84.

Associated Cement Companies Ltd., The, 257/Bom/84.

Associated Engineers, 743/Del/84.

—B—

BBC Brown, Bovere & Company Ltd., 679/Mas/84, 689/Mas/84, 727/Mas/84, 731/Mas/84.

Babcock & Wilcox Company, The, 653/Cal/84, 654/Cal/84.

Babina, P.D., 716/Del/84.

Baker, D.R.W., 754/Mas/84.

Bam, A.V., 270/Bom/84.

Bayer Aktiengesellschaft, 707/Del/84.

Belgorod-Dnestrovsky Zavod Meditsinskig Izdelyiz Polimernykh Materialov, 642/Cal/84.

Bell Maschinenfabrik Aktiengesellschaft, 693/Mas/84.

Beloit Corporation, 608/Cal/84, 609/Cal/84.

Berol Kemi Ab, 677/Mas/84.

Bhanupati, S.S., 244/Bom/84.

Bharadwaj, N.T., 733/Mas/84.

Bhatia, K.R., 245/Bom/84.

Bhattacharyya, D. K. (Dr.), 664/Cal/84.

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Biomass Ltd., 725/Mas/84.

Bosemount Inc., 670/Mas/84.

Bouvet J., 624/Cal/84.

Brandt, Inc., 737/Mas/84.

British Petroleum Co. P. L.C. The, 747, Del 84

Buss Ag, Basel, 676/Mas/84.

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Carrier Corporation, 610/Cal/84.

Castolin S.A., 612/Cal/84.

Cement Research Institute of India, 704/Del/84, 732/Del/84, 733/Del/84.

Chaudhuri S., 667/Cal/84.

Chou, F., 715/Del/84, 717/Del/84.

Compagnie Generale De Geophysique, 715/Mas/84.

Concentric Pumps Ltd., 698/Del/84.

Continental Gummi-Works Aktiengesellschaft, 734/Mas/84.

Contra-shear Holdings Limited, 622/Cal/84.

Council of Scientific and Industrial Research, 709/Del/84, 733/Del/84.

Crompton Greaves Ltd., 250/Bom/84.

Cummine-Allison Corporation, 686/Mas/84.

—D—

Dana Corporation, 697/Mas/84.

Das Gupta P.K., 669/Cal/84.

Davidson & Co. Ltd., 723/Mas/84.

David T.J., 691/Del/84.

Debnath J., 625/Cal/84.

Degussa Aktiengesellschaft, 671/Cal/84.

Development Consultants Private Limited, 614/Cal/84, 659/Cal/84, 660/Cal/84.

Dholaria, K.R., 261/Bom/84.

Dirk, W., 687/Cal/84.

Dow Chemical Co., The, 675/Mas/84.

—E—

E.I. Du Pont De Nemours and Company, 665/Cal/84, 676/Cal/84.

E.R. Squibb & Sons, Inc., 730/Del/84.

Eldridge, A.C., 719/Del/84.

Enterprise D' Equipments Mecaniques Et Hydrauliques E.M.H., 694/Mas/84.

Entrepose G.T.M. Pour Les Travaux Petroliers Maritimes E.T.P.M., 694/Mas/84.

Erhard & Leimer GmbH, 644/Cal/84, 645/Cal/84, 646/Cal/84, 647/Cal/84, 648/Cal/84, 649/Cal/84, 650/Cal/84.

Exide Electronics International Corp., 760/Del/84.

Exxon Research and Engineering Co., 763/Del/84.

—F—

Federal Mogul Corporation, 751/Del/84.

Fried Krupp Genellschaft Mit Beschränkter Haftung, 651/Cal/84.

Friedrich, J.P., 719/Del/84.

—G—

GKN Kwikform Ltd., 708/Del/84.

Gandhi K.K.S., 684/Cal/84.

Ganesan, S., 688/Mas/84.

Gema S.A., 674/Mas/84.

General Foods Corporation, 750/Del/84.

George, A. (Mrs.), 741/Del/84.

Gethoria, A.K., 264/Bom/84.

Gillette Co., The., 725/Del/84.

Gnanasekaran, A., 708/Mas/84, 739/Mas/84, 740/Mas/84.

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Gnb Batteries Inc., 620/Cal/84.

Grant, L.A., 698/Cal/84.

Greaves Foseco Ltd., 256/Bom/84.

Guseinov, M.A.O., 623/Cal/84.

—H—

Haustrup Plastic A.S., 707/Mas/84.

Herrmann, A., 728/Del/84.

Hindrotronic Water-Cleaning Systems, Ltd., 703/Mas/84.

Hindustan Lever Ltd., 266/Bom/84.

Hochiki Kabushiki Kaisha, 736/Mas/84.

Hydro-Quebec, 738/Mas/84.

—I—

ITT Industries, Inc., 672/Mas/84.

Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR, 638/Cal/84, 641/Cal/84.

Institut Francais Du Petrole, 715/Mas/84.

Intermatch S. A., 710/Del/84.

International Research &amp; Development Co. Ltd., 744/Mas/84.

International Standard Electric Corporation, 685/Mas/84.

Interrox, 697/Del/84, 726/Del/84.

Ion Exchange (India) Ltd., 274/Bom/84, 275/Bom/84.

—J—

Janssen Pharmaceutica N.V., 655/Cal/84.

Jay Machinery Manufacturing Co. Pvt. Ltd., 263/Bom/84.

Joseph, T.G., 741/Del/84.

Joseph, V., 700/Mas/84.

—K—

Kabushiki Kaisha Meidensha, 700/Cal/84.

Karl Fischer Industrieanlagen GmbH, 757/Del/84.

Kndavrov, V. Y., 716/Del/84.

Korr-McGee Chemical Corporation, 718/Mas/84, 719/Mas/84, 720/Mas/84.

Kos, B., 671/Mas/84.

Kotadia, M.N., 267/Bom/84.

Kotadia, R.M., 267/Bom/84.

Kotadia, V.M., 267/Bom/84.

Kotadia (Master) V.V., 267/Bom/84.

Kreidel, I.Y., 716/Del/84.

Krishnamurthy, P., 681/Mas/84.

Kunte, M.V., 246/Bom/84.

Kuxo, V.M., 716/Del/84.

Kuznetsov, I.D., 627/Cal/84, 716/Del/84.

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Lamy, J.E., 696/Del/84.

Laszlo, P., 726/Mas/84.

Lignes Telegraphiques Et. Telephoniques Ltd., 695/Del/84.

Linde Aktiengesellschaft, 716/M/84.

Loire, C., 736/Del/84.

Lubrizol Corporation, The, 673/Cal/84.

Lucas Industries Public Limited Company, 673/Mas/84.

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MARS Limited, 663/Cal/84.

Madhukar, U.C., 254/Bom/84.

Mahajan, S.K., 249/Bom/84.

Majumdar A., 674/Cal/84.

Majumdar, S., 674/Cal/84.

Makkar, R., 737/Del/84.

Malakhova, E.Y., 716/Del/84.

Mali, P.N., 247/Bom/84.

Mangtani, V.D., 243/Bom/84.

Masuda, Y., 743/Mas/84.

Mazumdar, A., 669/Cal/84.

McConway &amp; Torley Corporation, 691/Cal/84.

MC Dermott International, Inc., 720/Del/84.

Memorex Corporation, 688/Cal/84.

Messer Messerschmitt-Bolkow-Blohm gesellschaft Mit Beschränkter Haftung, 734/Del/84.

Metacon, A.G., 732/Mas/84.

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Metal Box P.L.C., 669/Mas/84, 711/Mas/84, 742/Mas/84.

Metallizing Equipment Co. (Pvt.) Ltd., 689/Del/84.

Minitronics Pty. Ltd., 712/Mas/84.

Minpro Pty Ltd, 607/Cal/84.

Minsky Motory Zavod, 640/Cal/84.

Mipak Plastics (Pvt.) Ltd., 255/Bom/84.

Mitsubishi Denki Kabushiki Kaisha, 683/Mas/84.

Mobil Oil Corporation, 698/Mas/84.

Modern balance Works, 692/Del/84, 693/Del/84.

Mohindra, R., 692/Mas/84.

Moskovsky Nauchno-Issledovatelsky Institut Tuberkuleza, 642/Cal/84.

Motan Gesellschaft Mit Beschränkter Haftung, 696/Cal/84.

Muller, R., 695/Cal/84.

Muthuramakrishnan, R., 721/Mas/84

—N—

Nabisco Brands, Inc., 617/Cal/84, 618/Cal/84, 619/Cal/84.

Narayanan, V.N.S.A., 696/Mas/84, 701/Mas/84.

Newaz, A. (Md), 664/Cal/84.

Niky Fasha India Pvt. Ltd., 731/Del/84, 740/Del/84.

Nippon Kokan Kabushiki Kaisha, 709/Mas/84.

Norton Company, 662/Cal/84.

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Oil and Natural Gas Commission, 764/Del/84, 765/Del/84, 766/Del/84.

Oka, R.V., 252/Bom/84.

Olsov, V.F., 116/Del/84.

Otto Bilz, Werkzeugfabrik, 668/Cal/84.

Owens-Corning Fiberglas Corporation, 634/Cal/84.

—P—

Pall Corporation, 689/Cal/84.

Patel B.K., 666/Cal/84.

Patel, N.K., 666/Cal/84.

Patel, S., 262/Bom/84.

Paul Wurth S.A., 700/Del/84.

Pennwelt India Ltd., 259/Bom/84.

Personal Products Company, 615/Cal/84.

Personn, J.E., 699/Mas/84.

Phillips Petroleum Company, 661/Cal/84.

Piaggio &amp; C.S.P.A., 758/Del/84.

Pilecon Engineering SDN. BHD., 748/Del/84.

Podolsky, I.I., 627/Cal/84, 716/Del/84.

Poojara, H.B., 271/Bom/84.

Projects &amp; Development India Ltd., 670/Cal/84, 672/Cal/84.

—R—

RMG Beierling GmbH, 656/Cal/84.

Ramachandran, C., 687/Mas/84.

Ramjibhai, D. K., 258/Bom/84.

Raychem Corporation, 714/Mas/84.

Reckitt &amp; Colman of India Limited, 675/Cal/84.

Rexnord, Inc., 718/Del/84.

Rheinsche Braunkohlenwerke Ag., 702/Cal/84.

Rhone Poulence Sante, 738/Del/84, 739/Del/84.

Ribi Immunochem Research, Inc., 677/Cal/84.

Rosemount, Inc., 670/Mas/84.

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SPBP Tea Industries Pvt. Ltd., 629/Cal/84, 630/Cal/84, 632/Cal/84, 633/Cal/84.

SPOFA, 690/Cal/84.

Saini G. C., 613/Cal/84.

Saint-Gobain Recherche, 621/Cal/84.

Sait, M.I., 688/Mas/84.

Salco basel AG., 729/Del/84.

Salk Institute for Biological Studies, The, 682/Mas/84.

Sapozhnikov, B.I., 716/Del/84.

Sarabhai, A., 262/Bom/84.

Savalaia Machine Tools Pvt. Ltd., 265/Bom/84.

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Sea Transportation Enterprises Pvt. Ltd., 260/Bom/84.

Serac Ltd., 755/Del/84.

Sergeev, S.P., 716/Del/84.

Shanmugham, K.N.C., 688/Mas/84.

Shell Nederland R. &amp; C. Maatschappij B.V., 699/Del/84.

Shete M.K., 244/Bom/84.

Shete, P.M., 244/Bom/84.

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Shri Ram Institute for Industrial Research, 701/Del/84, 702/Del/84, 703/Del/84.  
 Shrivastava, G.R., 729/Mas/84.  
 Siemens Aktiengesellschaft, 631/Cal/84, 697/Cal/84.  
 Sinclair Research Ltd., 702/Mas/84, 705/Mas/84, 706/Mas/84.  
 Singh, P.P., 759/Del/84.  
 Singh, R.P., 745/Del/84.  
 Sinha N.B. (Dr.), 686/Cal/84.  
 Societe Des' Electrodes Et Refractories Savoie (S.E.R.S.), 685/Cal/84.  
 Societe des Produits Nestle S.A., 690/Mas/84.  
 Societe Europeenne De propulsion, 752/Del/84.  
 Societe Francaise D' Etude D' Installations siderurgiques Sofresid, 694/Mas/84.  
 Societe nationale Elf aquitaine (Production), 711/Del/84, 712/Del/84, 713/Del/84, 714/Del/84.  
 Sonex Research Inc., 678/Cal/84, 679/Cal/84, 680/Cal/84, 681/Cal/84, 682/Cal/84.  
 Spetsialone Konstruktorskoe Bjuro Gidroimpulsnoi Tekhniki Sibirsogo Otdelenia Akademii Nauk SSSR, 637/Cal/84, 639/Cal/84, 643/Cal/84.  
 Standard Telephones and Cables Public Limited Co., 690/Del/84.  
 Stauffer Chemical Co., 713/Mas/84.  
 Steel Authority of India Ltd., 694/Del/84.  
 Sulzer Brothers Ltd., 746/Del/84.  
 Sumitomo Metal Industries, Ltd., 684/Mas/84.  
 Survival Technology, Inc., 657/Cal/84, 658/Cal/84.  
 Surya & Co., 761/Del/84.

—T—

TLV Co. Ltd., 611/Cal/84.  
 Tamhane, H.Y., 248/Bom/84.  
 Tandem Computers Incorporated, 692/Cal/84, 693/Cal/84, 694/Cal/84.  
 Tanjant Tool Co. Australia Pvt. Ltd., 683/Cal/84.  
 Thermax Private Ltd., 272/Bom/84, 273/Bom/84.  
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Totra Pak International AB., 735/Mas/84.  
 Toyama Chemical Co. Ltd., 628/Cal/84, 701/Cal/84.  
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 USM Corporation, 723/Del/84, 724/Del/84.  
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Veb Combinat Nagema, 691/Mas/84.  
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 Vhatkar, V.K., 253/Bom/84.  
 Vikas Engineering Corporation, 721/Del/84, 722/Del/84.  
 Voest-Alpine Aktiengesellschaft, 626/Cal/84.  
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—W—

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 Widia (India) Ltd., 695/Mas/84, 722/Mas/84.  
 Wigley, A.F., 727/Del/84.  
 Wormald International Ltd., 268/Bom/84, 269/Bom/84.

—Y—

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—Z—

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